

```

GGTTACCATC CTCAAAGGAT TGGCTAAAAG CAAGCAACTG GATTGAACAC CCTAAGAAGA      60
AAGATTCACTA CTGCACCAGG AGACATCAGA AAGAATGAAA ACTCTGCCGC TGTTTGTGTG      120
CATCTGTGCA CTGAGTGTCT GCTTCTCGTT CAGTGAAGGT CGAGAAAGGG ATCATGAACT      180
ACGTCACAGG AAGGCATCAT CACCAATCAC CCAAATCTCA CTTTGAATTA CCACATTATC      240
CTGGACTGCT AGCTCACCAG AAGCCGTTC TTAGAAAAGTC CTATAAATGT CTGCACAAAC      300
GCTGTTAGGC CTAAGCTTCC ACCTTCACCT AATAACCCCC CCAAATTCCC AAATCCTCAC      360
CAGCCACCTA AACATCCAGA TAAAAATAGC AGTGTGGTCA ACCCTACCTT AGTGGCTACA      420
ACCCAAATTC CATCTGTGAC TTCCCATCA GCTTCCACCA AAATTACTAC CCTTCCAAAT      480
GTGACTTTTC TTCCCCAGAA TGCCACCACC ATATCTTCAA GAGAAAATGT TAACACAAGC      540
TCTTCTGTAG CTACATTAGC ACCCAGTGAA TTCCCCAGCT CCACAAGACA CCACAGCTGC      600
CCCACCCACA CTTCTGCAA CTACACCAGC TCCACCCTC GAG                               643

```

(2) INFORMATION FOR SEQ ID NO:487:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 335 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:487:

```

GAATTCGGCC AAAGAGGCCT ACAAGATGCT GCTGGTCCTG CTCTCAGTGG TCCTTCTGGC      60
TCTGAGCTCA GCTCAGAGCA CAGATAATGA TGTGAACTAT GAAGACTTTA CTTTCACCAT      120
ACCCAGATGA GAGGACTCAA GTCCAGAGAC AGATCAGGGA CCCAGAGAC CTCCTCCTGA      180
AGGACTCCTA CCTAGACCCC CTGGTGATAG TGGAACCAA GATGATGGTC CTCAGCAGAG      240
ACCACCAAAA CCAGGAGGCC ATCACCAGCA TCCTCCCCCA CCTCCTTTTC AAAATCAGCA      300
ACGACCACCC CAACGAGGAC ACCGTTTCATC TCGAG                               335

```

(2) INFORMATION FOR SEQ ID NO:488:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 323 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:488:

```

GAATTCGGCC AAAGAGGCCT AGACACATTG CCTTCTGTTT TCTCCAGCAT GCGCTTGCTC      60
CAGCTCCTGT TCAGGGCCAG CCCTGCCACC CTGCTCCTGG TTCTCTGCCT GCAGTTGGGG      120
GCCAACAAAG CTCAGGACAA CACTCGGAAG ATCATAATAA AGAATTTTGA CATTCCTAAG      180
TCAGTACGTC CAAATGACGA AGTCACTGCA GTGCTTGAG TTCAAACAGA ATTGAAAGAA      240
TGCATGGTGG TTAATACTTA CCTCATTAGC AGCATCCCTT CTACAAGGTG CATTTAATA      300
TAAGTATAAC TGCCAACCTC GAG                               323

```

(2) INFORMATION FOR SEQ ID NO:489:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 128 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:489:

GAATTCGGCC AAAGAGGCCT AGTGACACCA GAGCCTCCTG CAAGATGCTT CTGATTCTGC	60
TGTCAGTGGC CCTGCTGGCC TTCAGCTCAG CTCAGGATTT AAATGAAGAT GTCAGCCAGG	120
AAGATGTT	128

(2) INFORMATION FOR SEQ ID NO:490:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 366 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:490:

GAATTCGGCC AAAGAGGCCT AATTTTGACC AGCAGATTAA TCAACTGTAA GACGGATCCT	60
CACACAAAGA GGCAACTGAA AGGATGAAAT CACTGACTTG GATCTTGGGC CTTTGGGCTC	120
TTGCAGCGTG TTTCACACCT GGTGAGAGTC AAAGAGGCC CAGGGGACCA TATCCACCTG	180
GACCGCTGGC TCCTCCTCAA CCTTTTGGCC CAGGATTGT TCCACCACCT CCTCCTCCAC	240
CCTATGGTCC AGGGAGAATC CCACCTCCTC CTCTGCAGAG AAAACCTTTG AAGAAAAGCA	300
GGAACAGAGA TCGATGGCGA TCTATTTCCC TGTACTATAC TGGAGAGAAA GGTCAAAATC	360
GTCGAG	366

(2) INFORMATION FOR SEQ ID NO:491:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 296 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:491:

GGTTTCCCGT TTGTCCCTCC TTCAAGGTTT TTTTCAGCAG CTGCAGCACC CGCTGCCCCA	60
CCTATTGCAG CTGAGCCTGC TGCAGCTGCA CCTCTTACAG CCACACCTGT AGCAGCTGAG	120
CCTGCTGCAG GGGCCCCTGT TGCAGCTGAG CCTCCTGCAG AGGCACCTGT TGGAGCTGAG	180
CCTGCTGCAG AGGCACCTGT TGCAGCTGAG CCTGCTGCAG AGGCACCTGT TGGAGTGGAG	240
CCAGCTGCAG AGGAACCTTC ACCAGCTGAG CCTGCTACAG CCAAGCCTAG GCCTCT	296

(2) INFORMATION FOR SEQ ID NO:492:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 535 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:492:

CTCGAGTCCT TGTGGCTTTC CTGGAGGTGG GGGACCTTGA GGTTTGTTGC CTCCTTGTGG	60
GGGTGGTCCT TGTGGCTTTC CTGGAGGAGG TGAAGGACCT TGAGGCTGGT TGCCTCCTTG	120

```

TGGGGGTGGT CCTTGTGGCT TTCCTGGAGG AGATCGGGGA CTCGGGGAC TTGTCTCCTT 180
GTGGGGGTGG TCCTTGTGGC TTTCTGGAG GTGGGGGACC TTGAGGTTTG TTGCCTCCTT 240
GTGGGGGTGG TCCTTGTGGC TTTCTGGAG GAGGTGGGGG ACCTTGAGGC TGGTTGCCTC 300
CTTGTGGGGG TGGTCTTGT GGCTTTCCTG GAGGAGATGG GGGACCTTGA GGTTTGTTGC 360
CTCCTTGTGG GGGTCTCCT TGTGGATTTC CTGCTATTAG GGAGGGAGAT TCTTCTGGC 420
TGACATCTTC ATTTAAGTTC TGAGCTGAGC TCAGGGCCAG CAGGGCCACT GACAGCAGAA 480
TCAACAGCAT CTTGCAGGAG GCTCTGGAGT CACTTAGGCC TCTTTGGCCG AATTC 535

```

(2) INFORMATION FOR SEQ ID NO:493:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 321 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:493:

```

GAATTCGGCC AAAGAGGCCT AGTCGGTAAT CACAACAAAC ACGGAGCAAT CTCAATGCTG 60
TTTATCCGGA GGACAGTCTG CGGGTCTGTG ACGATTCTTT TCTTCTGAA GTTTTTCCTT 120
TTCCTGAATC TCATAATGAT TCTTGCCAT GATTCTGTCT TTTCAATGAC TGTGGCTTCT 180
ACTCGAACAA GATCCTTTCC GAGGAGTGGC TTGCCAAGCA GCGTGAAGTT GTCTGCCCCA 240
ACCAGCAGGA CCTTCTCCAG TCGAATTCTC TCTCCACACG CAAGGTCTAG TTCATTTCCA 300
ATTAAGATCA GGTCTTCAGA G 321

```

(2) INFORMATION FOR SEQ ID NO:494:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 361 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:494:

```

GAATTCGGCC AAAGAGGCCT AACCTGCCTT GGTTCTTGCT CCTCTTTCCA CGTTGGATAA 60
CAATTTTGTG GTTGTTTGT TTAAGTTGGT GCTCTGAAGC TTAATCTCAG TACCCTTTAC 120
TCTGAATTGT CAAATTTGA TAAAACGTGC CATTTTCTTT GGTAAGAGAA AGCAGGTCTT 180
AATGTCTGCC AGAACACAAT TTATATGCCT TATTGGCTTC ATTAACTTT TAGAAAACCT 240
TAGCATTGT TACTTTTTC CATTGCATT ACTTTCAAAT GCACCTAATG AATTCGTCAC 300
CCAGTCGCAA CTTTCCCTT CTCTGTCCCA TTGCTTTCTC CTTTCCCAA CGCAGCTCGA 360
G 361

```

(2) INFORMATION FOR SEQ ID NO:495:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 435 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:495:

```

GAATTCGGCC AAAGAGGCCT AAAGCGACCA AGATAAAAGT GGACAGAAGA ATAAGCGAGA      60
CTTTTATCC ATGAAACAGT CTCCTGCCCT CGCTCCGGAA GAGCGCTACC GCAAAGCCGG      120
GTCCCAAAG CCGGTCTTGA GAGCTGATGA CAATAACATG GGCAATGGCT GCTCTCAGAA      180
GCTGGCGACT GCTAACCTCC TCCGGTTCCT ATTGCTGGTC CTGATTCCAT GTATCTGTGC      240
TCTCGTTCTC TTGCTGGTGA TCCTGCTTTC CTATGTTGGA ACATTACAAA AGGTCTATTT      300
TAAATCAAAT GGGAGTGAAC CTTTGGTCAC TGATGGTGAA ATCCAAGGGT CCGATGTTAT      360
TCTTACAAAT ACAATTTATA ACCAGAGCAC TGTGGTGTCT ACTGCACATC CCGACCAACT      420
AGGCCTCTTT GGCCG                                     435

```

(2) INFORMATION FOR SEQ ID NO:496:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 122 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:496:

```

GAATTCGGCC AAAGAGGCCT AGAAATATAT TTTCTAGTGA ATTCTTATTG GAAGCCAGGT      60
CTCTCCTCTC ATTAGATCAA AAGGGACTTA TGTACATACA ACAATTGAAA GTGTTACTCG      120
AG                                     122

```

(2) INFORMATION FOR SEQ ID NO:497:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 260 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:497:

```

GAATTCGGCC AAAGAGGCCT AAGAAAATCA GCCTGTCTGC TCTCTCCTTG GCTCAACAAG      60
GCCTCTAACA GTCTTCTGTC CTCTATTCTG CACACGGCAT ATTTGGGAAC GAGAAACAAA      120
AGTTTCCCA AATGAAGAGA ACTCACTTGT TTATTGTGGG GATTTATTT CTGTCCTCTT      180
GCAGGGCAGA AGAGGGGCTT AATTTCCCA CATATGATGG GAAGGACCGA GTGGTAAGTC      240
TTTCCGAGAA GACCCTCGAG                                     260

```

(2) INFORMATION FOR SEQ ID NO:498:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 48 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:498:

```

GAAAGAGGCC TACCAACATG CCAGAGGCCG TACCCATATC CGCAGCAG      48

```

(2) INFORMATION FOR SEQ ID NO:499:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 276 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:499:

GAATTCGGCC TTCATGGCCT ACCCTGTCAA AATTTTGCCT CCTCTTGATT TTCAATATAT	60
ATATATTTTT TTGTCTTACT CTGTTGCCCA GGCTAGAGTG CAGTGACGTG ACCTTGGCTC	120
ACTGCAACCT CTGCCTCCTG GGCTCAAGCA ATCCTCCCAC CTCAGCCTCC TCAGTAGCTG	180
GGACCACAGG CATATGCTAC AAAGCCCAGA TTATTTTTTT ATAGAAACAG GGTTCACCA	240
TGTTGCCAG GCTTGTCTCG AACCCAGAA CTCGAG	276

(2) INFORMATION FOR SEQ ID NO:500:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 301 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:500:

GAATTCGGCC TTCATGGCCT ACAAATGCCC ATCAAAGACT GGATAAGAA AATGTAGTAT	60
ATATATATAT ACCATGGAAT ACTGTGCAGC CATAAAAAAG GAATGAGATC ATGTGTTTCA	120
CAGGGATGTG GATGAAGCTG GAAGCCATCA TCCCAGCAG ACTAACACAG GAACAGAAAA	180
CCAAACACTG CATGTTCTCA CTCATAAGTG GGAGCTGAAC AATGAGAACA GGTGGGCACA	240
GGGACGGGAA CAACACACAC CAGGGCCTGT TGTGTGGTGG GGGTGAGGGT TGGAACCGA	300
G	301

(2) INFORMATION FOR SEQ ID NO:501:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 400 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:501:

GCGAGGCAGG GAAACTCACT TCACGTCTCT TTCCTTGTAG AGCATCATGC TTATTTCTGG	60
CTCACTCACA TCTTTGTCTC GGGAGTTCTC TGCCGAGCCA TTGCCCCCTA CAGCAGAGAG	120
CACAGCTGGC TGCACTAGTG CTGAAGGAGC CAGCCCCAGA GCAGGGCATT TCCAGGGGCT	180
CTTGTCCTCAG AGCGGCAGGC GTTGTGTGCA GAGAACGCCC CTCCCACGCA GCACAGAGAA	240
CGCGGGGTGG GTGTGTGGCT CCGGGCCTGT GGGGCTTAGG CTGCCTGAAC CACCGCCGAC	300
TGGCACCATG ACTCGGCATT CTTGGAAGTG CCTTACCAAG TTGTTGTTGT TGTGTTGTTG	360
TTTTTTAAGA GACGGGCTTG CTCTATCATC CAGGCTCGAG	400

(2) INFORMATION FOR SEQ ID NO:502:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 286 base pairs

(B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:502:

GAGATAAACA AAATTGATTG CCCATTCTC TCACTTCCCC ATCTTGTCCTT CCTAGACCCC	60
ACAGAGTTAA AACTTGGGAT TCCCCTGGCC CCCCAGAAC ACTTGATATAT TGTTTGTGTTG	120
AGGTTTCGTGC CGCAGTAACA GACACAGTAT TTAATTGCAC ATACAGATGT TTGCTGGGTA	180
TATTCACGTG AAATTTTATT TAATCTGTTT TTTTGTGTTG TTGGGGGTTA TTTGGGGGGA	240
GGTTGGTTTT GTTTTAAAT ATAAAAAAA AAATCTGTCA CTCGAG	286

(2) INFORMATION FOR SEQ ID NO:503:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 279 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:503:

GGCCTCACCT TACCCAGGA CTCGCTATG ACACGCCTC TGCCCTACA AGACACAGAT	60
CTCTCGTCAG CCTCAAAGCC TGTGGCTGCA GCCACGCCTG TGTCCTAGCA GGCTGAAGAG	120
GGCCTCACCT TACCCAGGA CTCGCTATG ACAGCACCTC TGCCTCTGCA AGACACAGGC	180
CCCACCTCAG GTCCAGAGCC TCTGGCTGTG GCCACCCCTC AAACCTTGCA GGCAGAAGCA	240
GGCTGTGCCC CAGGGACAGA GCCTGTGGCC ATACTCGAG	279

(2) INFORMATION FOR SEQ ID NO:504:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 306 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:504:

GCAATGGCAG GAATTCGAAA TATTGGCATA TGGTTCTTTT GGATTAGATT ATATAAAATC	60
AGAAGAGGTA GAACCAGGCC CCAAGCACTC CTTTCTCTCT GCATGATACT TCTGCTTATT	120
GTCTTTCACA CTAGCTACAT GATTTATAGT CTTGCTCCCC AATATGTTAT GTATGGAAGC	180
CAAAATTACT TAATAGAGAC TAATATAACT TCTGATAATC ATAAAGGCAA TTCAACCCTT	240
TCTGTGCCAA AGAGATGTGA TGCAGAAGCT CCTGAAGATC AGTGTACTGT TACCCGGACG	300
CTCGAG	306

(2) INFORMATION FOR SEQ ID NO:505:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 361 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:505:

```
GAATTCGGCC TTCATGGCCT AAGGAGAATG GCGTGACCCC GGGAGGCGGA GCTTGCACTG      60
AGCCAACATC ACGCCACTGC ACTCCAGCCC GGGCGACTGA GCGAGACTCT CTCTCNAAAA      120
AAAAAAAAAA AAAGAAAAAG AAAAAGAAAA AGAAAAAGAA AAGAAAATAT ATANATACAC      180
ACAGAGAGTG AGAGAGAGAG AGAGAGAGAG ACCAGAAAAA GAGAGAAGGA GAAAGAGAGA      240
ATGCAAAAC CAAGAGGANA GAATGATCCA CTCTCCAAC AGAAAGGTAG CTCTCAATCT      300
GAAAAGTCAC TTGATTACTT TGTCTATTTT GCTTATCTGC TACATCAATG GTTCCTCGA      360
G                                                                                   361
```

(2) INFORMATION FOR SEQ ID NO:506:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 304 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:506:

```
GAATTCGGCC TTCATGGCCT AGGCCTTTTC TTTTAAAGG AATTCAAGCA GGATACGTTT      60
TTCTGTTGGG CATTGACTAG ATTGTTTGCA AAAGTTTCGC ATCAAAAACA ACAACAACAA      120
AAAACCAAAC AACTCTCCTT GATCTATACT TTGAGAATTG TTGATTTCCT TTTTATTATC      180
TGACTTTTAA AAACAACTTT TTTTCCACT TTTTAAAAA ATGCACTACT GTGTGCTGAG      240
CGCTTTTCTG ATCCTGCATC TGGTCACGGT CGCGCTCAGC CTGTCTACCC GCAGCACACT      300
CGAG                                                                                   304
```

(2) INFORMATION FOR SEQ ID NO:507:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 273 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:507:

```
GGGGCTGCGG GGATTGACCT CCTCACTTCT GGGTTGCCAC TCGAAGCTTG CTCCGGGCAA      60
CGACCTTGCT GCTTCCAGAG GGGAACTGT AGCCACAGAG CCAGGAGAGA AGCCAAAGCA      120
CCTGCTCCAC GTCCACATCA CCCAGGCTT CTAGCCCCCA GGGGCTTCAT CAGTGCTTCA      180
GCGCTCTCTC CCATCCCCCA CTCCCATGT CCCTCGTGAT CCGAACTCCT AGGGCTCCGT      240
GTCCACAGG TCACCACTTC CGGCTGTCTC GAG                                                                                   273
```

(2) INFORMATION FOR SEQ ID NO:508:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 287 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:508:

GAATTCGGCC TTCATGGCCT ACATCAATAA AATACATTCT ACACAGAATA CGCCAACCAT	60
ACACTACTCT TTTTGGATAA TAAAAAATGT ATTTACTGAG CCAGTTGTGG TGGCTCGGCG	120
CTATAATCCC AGCACCTTGG AAGGCCAATG GGAGTGGATC GGTGAGGCC AGGAGTTTGA	180
GACCGGCCTG GCCAACATGG TGGAAATGCCG TCTCTACTGA GAATGCAGAA ATGAGCCGGG	240
CACGGTGGCA CGCACCTGTA GTCCCAGGTA CTCCGATTCC TCTCGAG	287

(2) INFORMATION FOR SEQ ID NO:509:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 248 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:509:

AAGAGGCGAT GGCGGCGATG GCATCTCTCG GCGCCCTGGC GCTGCTCCTG CTGTCCAGCC	60
TCTCCCGCTG CTCAGCCGAG GCCTGCCTGG AGCCCCAGAT CACCCCTTCC TACTACACCA	120
CTTCTGACGC TGTCAATTCC ACTGAGACCG TCTTCATTGT GGAGATCTCC CTGACATGCA	180
AGAACAGGGT CCAGAACATG GCTCTCTATG CTGACGTCGG TGGAAAACAA TTCCCTTGTC	240
CACTCGAG	248

(2) INFORMATION FOR SEQ ID NO:510:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 397 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:510:

GGCGATGATT AGGCCAGACC CTCCCCATCC TCGTGAGGGC CAGAAGCTGT TGCTACACTG	60
TGAGGGTCCG GGCAATCCAG TCCCCCAGCA GTACCTATGG GAGAAGGAGG GCAGTGTGCC	120
ACCCCTGAAG ATGACCCAGG AGAGTGCCCT GATCTTCCCT TTCCTCAACA AGAGTGACAG	180
TGGCACTTAC GGCTGCACAG CCACCAGCAA CATGGGCAGC TACAAGGCCT ACTACACCT	240
CAATGTTAAT GACCCAGTC CGGTGCCCTC CTCCTCCAGC ACCTACCACG CCATCATCGG	300
TGGGATCGTG GCTTTCATTG TCTTCTGCT GCTCATCATG CTCATCTTCC TCGGCCACTA	360
CTTGATCCGG CACAAAGGAA CCTACCCTAC ACTCGAG	397

(2) INFORMATION FOR SEQ ID NO:511:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 290 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:511:

GCCTGCCTCC	AGGCCTTTGC	TCCCACITGTT	GCCTCCACTT	AGAATAACAT	TCCACCCCAT	60
CTCTATAAAT	ATCCTACAGA	CAAATACTAC	CTTCCCCTTA	AGGCCAGTTC	TAACCCTAAC	120
TGACAACAAA	TCATCTCTAC	ATGATCTTTT	CCTTCTGGGA	ATGCCTGCAG	CACTGTTTAA	180
TCCTGCCCCA	CCACCATCCC	CTCACCAGC	ACCCTCTCCC	AGACCAGACA	GGGTGGCTCA	240
TGCCTGCAAT	CCCAGCACCT	TGGGAGGCTG	AGGCAGGAGG	ATTGCTCGAG		290

(2) INFORMATION FOR SEQ ID NO:512:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 304 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:512:

GAATTCGGCC	TTCATGGCCT	ACTATGCCGT	CATGATAGAG	AAGATGATCC	TGAGAGACCT	60
GTGCCGTTTC	ATGTTTGTCT	ACGTCGTCTT	CTTGTTGGG	TTTCCACAG	CGGTGGTGAC	120
GCTGATTGAA	GACGGGAAGA	ATGACTCCCT	GCCGTCTGAG	TCCACGTGCG	ACAGGTGGCG	180
GGGGCCTGCC	TGCAGGCCCC	CCGATAGCTC	CTACAACAGC	CTGTACTCCA	CCTGCCTGGA	240
GCTGTTCAAG	TTCACCATCG	GCATGGGCGA	CCTGGAGTTC	ACTGAGAACC	ATGAATTCT	300
CGAG						304

(2) INFORMATION FOR SEQ ID NO:513:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 314 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:513:

GAATTCGGCC	TTCATGGCCT	AGGAACCTGG	ACCGCGGCGG	CGCCGGGTTT	CCCTCATGAT	60
CCCGGGCGGG	CGGCGGCGGC	GGCAGAGGCG	GCGGGAGGAT	GACCTCTTAC	CGGGAGCGGA	120
GTGCCGACCT	GGCCGTTTC	TACACTGTCA	CCGAGCCCCA	GCGACACCCG	AGGGGCTACA	180
CAGTATATAA	GGTCACCGCC	CGGGTTGTTT	CACGAAGAAA	TCCAGAGGAT	GTCCAGGAGG	240
GAGAAATCCTG	AACCAACCTA	TCCATGAACA	TACTCTCTGC	CATTTTCTTA	GTCTTTT	300
CGGAAAAACT	CGAG					314

(2) INFORMATION FOR SEQ ID NO:514:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 529 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:514:

GAATTCGGCC	TTCATGGCCT	ACGAACCTAA	GAAAAATGAGA	CTGAGCAATC	TCATGGTTCT	60
TGGACAGTTA	GTCTATGGCC	AATTGATGGA	ACCAAGTAAAT	CGAGAGAACT	TTACCGAGAC	120
CTTGCCCAA	ATGCCAATTC	ATTCTCATGC	ACAGCCCCCA	GATGCCAGGG	AAGAGGATAT	180

CATACTTGAA	GGTCAACAGA	GCCTGCCATC	CCAGGCTTCA	GATTGGAGCC	GATACTCAAG	240
CAGCTTACTG	GAATCCGTCT	CTGTTCTCTG	AACACTAAAT	GAGGCTGTTG	TAATGACTCC	300
ATTTTCATCG	GAACCTCAAG	GAATTTTCA	ACAGACCCTC	CTGGAGCTGT	CCAAAGGAAA	360
GCCTTCCCG	CATCCCAGAG	CCTGGTTTGT	GTCTCTTGAT	GGAAAGCCAG	TTGCACAAGT	420
GAGGCACTCC	TTTATAGACC	TGAAAAGGG	CAAGAGAACC	CAGAGCAATG	ACACCAGTCT	480
GGACTCTGGG	GTGGACATGA	ATGAGCTTCA	CTCAAGTAGA	AAGCTCGAG		529

(2) INFORMATION FOR SEQ ID NO:515:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 352 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:515:

GGAGATGAAA	GTAAAAGTG	AAAACCTTAA	AGAGGAGCCT	CAGTCTTCTG	AAGAAGAATC	60
TATGTCCTCT	GTGGAAACCA	GGACACTAAT	AAAATCTGAG	CCTGTAAGTC	CAAAGAATGG	120
TGTTTTACCA	CAGGCTACTG	GAGACCAGAA	ATCTGGTGGA	AAATGTGAAA	CAGACAGACG	180
CATGGTTGCA	GCCAGAACAG	AACCCCTAAC	TCCAAACCCA	GCTTCTAAGA	AACCAAGAGT	240
CCACAAAAGG	GGATCAGAAT	CTAGTTCTGA	TTCTGACTCA	GATTCTGAGA	GATCATCTTG	300
TTCTTCCAGA	TCATCTTCTT	CCTCATCATC	CTCTTCTTGT	CCCACTCTCG	AG	352

(2) INFORMATION FOR SEQ ID NO:516:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 500 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:516:

GTCTACACCN	TTCCGAGTTG	GCTGCAGATT	TGTGGTGCGT	TCTGAGCCGT	CTGTCCTGCG	60
CCAAGATGCT	TCAAAGTATT	ATTAAAAACA	TATGGATCCC	CATGAAGCCC	TACTACACCA	120
AAGTTTACCA	GGAGATTG	ATAGGAATGG	GGCTGATGGG	CTTCATCGTT	TATAAAATCC	180
GGGCTGCTGA	TAAAAGAAGT	AAGGCTTTGA	AAGCTTCAGC	GCCTGCTCCT	GGTCATCACT	240
AACCAGATTT	ACTTGGAGTA	CATGTGAAAG	AAAACGTCAG	TCTGCCTGTA	AATTTTCAGCA	300
AGCCGTGTTA	GATGGGGAGC	GTGGAACGTC	ACTGTACACT	TGTATAAGTA	CCGTTTACTT	360
CATGGCATGA	ATAAATGGAT	CTGTGAGATG	CACTGCTACC	TGGTACTGCT	TTCAAGTGTG	420
TCCCCCTCAG	CCCCTCCGGC	GTGTCAGGCA	TACTCTGAGT	AGATAATTTG	TCATGCAGCG	480
CATGCAATCA	GAATCTCGAG					500

(2) INFORMATION FOR SEQ ID NO:517:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 427 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:517:

GAATTCGGCC	TTCATGGCCT	AGATGCTCAA	CACCTCCTCC	TTGGTGGAGC	AGCTGAACGA	60
GCAGTTTAAAC	TGGGTGTCCC	GGCTGGCAAA	CCTCACGCAA	GGCGAACACC	AGTACTATCT	120
GCGGGTCACC	ACGGTGGCTT	CCCACACTTC	TGACTCGGAC	GTTCCCTCCG	GTGTCACTGA	180
GGTGGTCGTG	AAGCTCTTTG	ACTCTGATCC	CATCACTGTG	ACGGTCCCTG	TAGAAGTCTC	240
CAGGAAGAAC	CCTAAATTTA	TGGAGACCGT	GGCGGAGAAA	GCNCTGCAGG	AATACCGCAA	300
AAAGCACCGG	GAGGAGTGAG	ATGTGGATGT	TGCTTTTGCA	CCTACGGGGG	CATCTGAGTC	360
CAGCTCCCCC	CAAGATGAGC	TGCAGCCCCC	CAGAGAGAGC	TCTGCACGTC	ACCAAGTAAC	420
TCTCGAG						427

(2) INFORMATION FOR SEQ ID NO:518:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 399 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:518:

GAATTCGGCC	TTCATGGCCT	AATCTTAAGG	GACCTTTCCT	TACTACAGAT	TCAAATGCGA	60
GATCTTGAGG	GTTACAGGGA	AACGAGGTAT	CAGTTACTTC	AGCTTCGACC	TGCGCAGAGA	120
GCATCATGGA	TTGGTTATGC	TATTGCTTAC	CATTTATTAG	AAGATTATGA	AATGGCAGCA	180
AAGATTTTAG	AAGAATTTAG	GAAAACACAA	CAGACATCCC	CTGACAAGGT	GGATTATGAA	240
TATAGTGAAC	TACTCTTATA	TCAGAATCAA	GTTCTTCGGG	AAGCAGGTCT	CTATAGAGAA	300
GCTTTGGAAC	ATCTTTGTAC	CTATGAAAAG	CAGATTTGTG	ATAAACTTGC	TGTAGAAGAA	360
ACCAAAGGGG	AACCTCTGTT	GCAACTATGT	CGTTTGGAA			399

(2) INFORMATION FOR SEQ ID NO:519:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 399 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:519:

GAATTCGGCC	TTCATGGCCT	ACTTATCTTA	ATCCAATGGG	TGACATCTTC	AACAACCCTG	60
TTCCAATAAA	GGCTGCATTG	TAAACACTAG	GGATTAGAG	ATCAACATGT	GAATTTTGGA	120
GGAAATGTAGT	TCTAACCATA	ACAGCAGTGA	ATGAGATGAC	AGACTATTGC	TCTCAAAAGA	180
TAGCCAGGTT	TCTAGTTTCC	TTAGGCATTT	TCTGGAGGTT	TGCGAGCAGT	TCATTATTAT	240
CTTAAAAATA	TTATCCAGAG	CTGTGGTCTA	TCAGCAGCTC	ATTACCAGAC	TGGCAGATAC	300
ATTTAATCAG	CAAAAGAGTT	GTTCTGTGTA	TAGCATCCT	CCTGGTTTCC	CAGCTCAAGA	360
GTTCTTCTGA	GTAATAGTAA	TCCTTCCCCC	ATGCTCGAG			399

(2) INFORMATION FOR SEQ ID NO:520:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 273 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:520:

GCTGAAGTGG	TGACTTTTGA	GAGAGGACAC	AAAATTATCA	TCAGCTCCAG	TCGGAGAATC	60
CAGAAAGGAG	AAGAGGTAAG	AGTGTGAGAG	ATTGCATCTG	CCATGTTGTT	CAGATCCTGG	120
GCGAATAGTT	CCCTCCTCAC	ACAGGTCAC	TACTCACTTG	TTTCCCAATT	CTTTGTTGTG	180
ATAAAAACTC	TGTCCATAAT	AGGCCAGATG	TTCCCACCCT	GCAGTATCTC	ACCCTTCAGG	240
CACTCCAGTT	CACCTTCCTC	CACATCCCTC	GAG			273

(2) INFORMATION FOR SEQ ID NO:521:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 323 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:521:

GCTTTAAGAA	TTAACGAAAG	CAGTGTCAG	ACAGTAAGGA	TTCAAACCAT	TTGCCAAAAA	60
TGAGTCTAAG	TGCATTACT	CTCTCCTGG	CATTGATTGG	TGGTACCACT	GGCCACTACT	120
ATGATTATGA	TTTTCCCTA	TCAATTATG	GGCAATCATC	ACCAAACCTGT	GCACCAGAAT	180
GTAACGCCCC	TGAAAGCTAC	CCAAGTGCCA	TGTACTGTGA	TGAGCTGAAA	TTGAAAAGTG	240
TACCAATGGT	GCCTCCTGGA	ATCAAGTATC	TTTACCTTAG	GAATAACCAG	ATTGACCATA	300
TTGATGAAAA	GGCCGCACTC	GAG				323

(2) INFORMATION FOR SEQ ID NO:522:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 274 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:522:

GGAAAAAGAA	GAGAAAGCCA	AGGAAGACAA	GGGCAAACAA	AAGTTGAGGC	AGCTTCACAC	60
ACACAGATAC	GGAGAACCAG	AAGTGCCAGA	GTCAGCATTG	TGGAAGAAAA	TCATAGCATA	120
TCAACAGAAA	CTTCTAAACT	ATTTTGCTCG	CAACTTTTAC	AACATGAGAA	TGTTAGCCTT	180
ATTTGTGCGA	TTTGCTATCA	ATTTCATCTT	GCTCTTTTAT	AAGGTCTCCA	CTTCTTCTGT	240
GGTTGAAGGA	AAGGAGCTCC	CCACGAGGCT	CGAG			274

(2) INFORMATION FOR SEQ ID NO:523:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 273 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:523:

GGCCCACTCC	AGATCCAGGA	CTGAGATCCC	AGAACCATGA	ACCTGGCCAT	CAGCATCGCT	60
CTCCTGCTAA	CAGTCTTGCA	GGTCTCCCGA	GGGCAGAAGG	TGACCAGCCT	AACGGCCTGC	120
CTAGTGGACC	AGAGCCTTCG	TCTGGACTGC	CGCCATGAGA	ATACCAGCAG	TTCACCCATC	180

CAGTACGAGT TCAGCCTGAC CCGTGAGACA AAGAAGCACG TGCTCTTTGG CACTGTGGGG 240
GTGCCTGAGC ACACATACCG CTCCTCCTC GAG 273

(2) INFORMATION FOR SEQ ID NO:524:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 456 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:524:

GAATTGGGCC TTCATGGCCT ACTCTCCTAT AAAGCAGACG CCGCGCCGCG CTGCGACGCT 60
GTAGTGGCCT CGTCTTCGGT TTTTCTCTTC CTTCGCTAAC GCCTCCCGGC TCTCGTCAGC 120
CTCCCGCCCG CCGTCTCCTT AACACCGAAC ACCATGCCTT CAATTAAGTT GCAGAGTTCT 180
GATGGAGAGA TATTGAAGT TGATGTGGAA ATTGCCAAAC AATCTGTGAC TATTAAGACC 240
ATGTTGGAAG ATTTGGGAAT GGATGATGAA GGAGATGATG ACCCAGTTCC TATACCAAAT 300
GTGAATGCAG CAATATTTAA AAAGGTCATT CAGTGGTGCA CCCACCACAA GGATGACCCT 360
CCTCCTCCTG AAGATGATGA GAACAAAGAA AAGCGAACAG ATGATATCCC TGTTTGGGAC 420
CAAGAATTCC TGAAAGTTGA CTAAGGAACA CTCGAG 456

(2) INFORMATION FOR SEQ ID NO:525:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 452 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:525:

GAATTGGGCC TTCATGGCCT AATGGGACAA CTCCTCGCCC TCTACCTGTC CCCTCCCCCT 60
TTGTTGTAT GATTTCTTC TTTTTAAGA ACCCTGGAA GCAGCGCCTC CTCAGGGTT 120
GGCTGGGAGC TCGGCCATC CACCTCTTGG GGTACCTGCC TCTCTCTC TCRTGGTGTC 180
CCTTCCTCT CCCATGTGCT CGGTGTTGAG TGGTGATAT TTCTTCTCCC AGACATGGGG 240
CACACGCCCC AAGGGACATG ATCCTCTCCT TAGTCTTAGC TCATGGGGCT CTTTATAAGG 300
AGTTGGGGGG TAGAGGCAGG AAATGGGAAC CGAGCTGAAG CAGAGGCTGA GTTAGGGGGG 360
TAGAGGACAG TGCTCCTGGC CACCCAGCCT CTGCTGAGAA CCATTCCTGG GATTAGAGCT 420
GCCTTTCCCA GGGAAAAAGT GTCGACTCG AG 452

(2) INFORMATION FOR SEQ ID NO:526:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 366 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:526:

GCGATTGAAT TCTAGACCAG ACTCGTCTCA GGCCAGTTGC AGCCTTCTCA GCCAAACGCC 60
GACCAAGGAA AACTCACTAC CATGAGAATT GCAGTGATTT GCTTTTGCCT CCTAGGCATC 120

ACCTGTGCCA TACCAGTTAA ACAGGCTGAT TCTGGAAGTT CTGAGGAAAA GCAGCTTTAC	180
AACAAATACC CAGATGCTGT GGCCACATGG CTAAACCCTG ACCCATCTCA GAAGCAGAAT	240
CTCCTAGCCC CACAGACCTT TCCAAGTAAG TCCAACGAAA GCCATGACCA CATGGATGAT	300
ATGGATGATG AAGATGATGA TGACCATGTG GACAGCCAGG ACTCCATTGA CTCGAATCGA	360
CTCGAG	366

(2) INFORMATION FOR SEQ ID NO:527:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 408 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:527:

GCCCCAGTCC AGATCCAGGA CTGAGATCCC AGAACCATGA ACCTGGCCAT CAGCATCGCT	60
CTCCTGCTAA CAGTCTTGCA GGTCTCCCGA GGCAGAAAGG TGACCAGCCT AACGGCCTGC	120
CTAGTGGACC AGAGCCTTCG TCTGGACTGC CGCCATGAGA ATACCAGCAG TTCACCCATC	180
CAGTACGACT TCAGCCTGAC CCGTGAGACA AAGAAGCACG TGCTCTTTGG CACTGTGGGG	240
GTGCCTGAGC ACACATACCG CTCCCGAACC AACTTCACCA GCAAATACAA CATGAAGGTC	300
CTCTACTTAT CCGCCTTCAC TAGCAAGGAC GAGGGCACCT ACACGTGTGC ACTCCACCAC	360
TCTGGCCATT CCCACCCAT CTCTCCCGA AACGTTACAG TGCTCGAG	408

(2) INFORMATION FOR SEQ ID NO:528:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 403 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:528:

GTAGGTCACA GCAGAAGCAG CCAAAATGGA TCCCCAGTGC ACTATGGGAC TGAGTAACAT	60
TCTCTTTGTG ATGGCCTTCC TGCTCTCTGG TGCTGCTCCT CTGAAGATTC AAGCTTATTT	120
CAATGAGACT GCAGACCTGC CATGCCAATT TGCAAACTCT CAAAACCAAA GCCTGAGTGA	180
GCTAGTAGTA TTTTGGCAGG ACCAGGAAAA CTTGGTTCTG AATGAGGTAT ACTTAGGCAA	240
AGAGAAATTT GACAGTGTTT ATTCCAAGTA TATGGGCCCG ACAAGTTTTC ATTGGACAG	300
TTGGACCTTG AGACTTCACA ATCTTCAGAT CAAGGACAAG GGCTTGATC AATGTATCAT	360
CCATCACAAA AAGCCACAG GAATGATTTC CATCCACCTC GAG	403

(2) INFORMATION FOR SEQ ID NO:529:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 475 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:529:

GAATTCCTCT TCTTTACCCT CGTCCTGCCG GGCACCTTCC TTAGGTTTGG TTTCATCTAC	60
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AGCTTCTATG	TTCTCTTCAG	CTTGGCTGCT	CTCCCCAGTC	TCCGTTGGAG	GCTGGGCTGT	120
TGCCTTGGCA	GCAGCATCCT	CTGCGGCAGG	GGTGGTGGCA	GCAGCAGCAG	TGACAGCAGC	180
AGGCACATCG	GCTTGTTTAG	GCTCCTCCTT	GGCTGGGGCA	TCTTCAGCCT	TGGAGGACGG	240
CGAGTTATCA	GTGGAAGCTT	TAGTGGCACT	TTCTGTCTCA	GCTGAGCCGG	CCTTCTCCTC	300
TGAGGATGCA	GGAGCCTGGG	GGGCTACCTG	CTCTGTGGCA	GCATCACCCCT	CCCCCTTTT	360
CTCCTCGGAA	GGAGTTTCTC	CTGCTTTGCC	GGGCTCATCA	GGCTTGGAGC	CAGTGGCTGG	420
GGCTGCTTCG	GCAGTAGTGG	TGCCTTCTCC	CTTCTTCTCC	ACCCCATCGC	TCGAG	475

(2) INFORMATION FOR SEQ ID NO:530:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 525 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:530:

GTGCTGGCGG	ACATGGACGT	GGTGAATCAG	CTGGTGGCTG	GGGGTCAGTT	CCGGGTGGTC	60
AAGGAGCCCC	TCGGCTTTGT	GAAGGTGCTG	CAATGGGTCT	TCGCCATCTT	CGCCTTTGCC	120
ACATGCGGCA	GCTACAGTGG	GGAGCTCCAG	CTGAGCGTGG	ATTGTGCCAA	CAAGACCGAG	180
AGTGACCTCA	GCATCGAGGT	CGAGTTTCAG	TACCCCTTCA	GGCTGCACCA	AGTGTACTTT	240
GATGCACCCA	CCTGCCGAGG	GGGCACCACC	AAGGTCTTCT	TAGTTGGGGA	CTACTCCTCG	300
TCAGCCGAAT	TCTTTGTAC	CGTGGCCGTG	TTGCCTTCC	TCTACTCCAT	GGGGGCTCTG	360
GCCACCTACA	TCTTCCTGCA	GAACAAGTAC	CGAGAGAATA	ACAAAGGGCC	CATGCTGGAC	420
TTTCTGGCCA	CGGCTGTGTT	CGCCTTCATG	TGGCTAGTTA	GCTCATCGGC	ATGGGCCAAG	480
GGGCTGTCTAG	ATGTGAAGAT	GGCCACAGAC	CCAGATGAAC	TCGAG		525

(2) INFORMATION FOR SEQ ID NO:531:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 313 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:531:

GCAAACAGAC	AAGGCTTACA	GGTTAGTTCA	GGATCTGCCG	CTTATCAAGC	AAATTGTTTT	60
GCCTATCCAA	CCTGCGGTGC	CAAACCCATA	TACTCTCCTA	TCCTCAATAC	CTCCCTCCAC	120
AACCCCTCCA	TAACCCATTA	TTCGGTTCTG	GATCTCAAAC	ATGCTTTCTT	TGCTATTCTT	180
TTGCATCCTT	CATCCAGCC	TCTCTTGTCT	TTCACTTGGG	CTGGCCCTGA	CACCCATCAG	240
CCTCAGCAAC	TTACCTGGGC	TGTACTGCCA	CAAGCCTTCA	CGGACAGCCC	CCATTACTTC	300
AGTAGCCCTC	GAG					313

(2) INFORMATION FOR SEQ ID NO:532:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 327 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:532:

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GAGACTATCG CCTATACTTT ATTTGGGTAA ATGTTTGGT TAAGGTTGTT TGGTGGTAGC      60
TGGTTGGGTT GCTGGGGCTC GGTGTTGTA GTCGCGATGT TCTTCTCCGA GGCCAGAGCC      120
AGGTGCGCGA CGTGGGAAGC CAGTCCCTCG GAACACAGGA AGTGGGTGGA AGTATTTAAA      180
GCATGTGATG AAGATCACAA AGGATATCTC AGCAGAGAGG ACTTTAAAAC TGCTGTTGTA      240
ATGCTGTTTG GGTACAAGCC CTCCAAGATA GAAGTGGATT CTGTGATGTC TTCAATAAAAT      300
CCAAATACTT CTGGTATATT ACTCGAG                                         327

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(2) INFORMATION FOR SEQ ID NO:533:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 347 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:533:

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GCCTGCCCCC ACCTTACAGG TCTGGGATGT ACCTTTCCAT CTGTTGCTGC TTCTTCTAT      60
GGGCCCCCTG CCTCACTCTC AAGAACCTCA ACTACTCCGT GCCGGAGGAG CAAGGGGCGC      120
GCACGGTGAT CGGGAACATC GGCAGGGATG CTCGACTGCA GCCTGGGCTT CCGCCTGCAG      180
AGCGCGGCGG CGGAGGGCGC AGCAAGTCGG GTAGCTACCG GGTGCTGGAG AACTCCGCAC      240
CGCACCTGCT GGACGTGGAC GCAGACAGCG GGCTCCTCTA CACCAAGCAG CGCATCGACC      300
GCGAGTCCCT GTGCCGCCAC AATGCCAAGT GCCAGCTGTC CTCGAG                                         347

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(2) INFORMATION FOR SEQ ID NO:534:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 506 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:534:

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GGTAGGACCG GCGAGGAATA GGAATCATGG CGGCTGCGCT GTTCGTGCTG CTGGGATTCG      60
CGCTGCTGGG CACCCACGGA GCCTCCGGGG CTGCCGGCAC ATTCTTCACT ACCGTAGAAG      120
ACCTTGGCTC CAAGATACTC CTCACCTGCT CCTTGAATGA CAGCGCCACA GAGGTCACAG      180
GGCACCGCTG GCTGAAGGGG GCGGTGGTGC TGAAGGAGGA CGCGCTGCCC GGCCAGAAAA      240
CGGAGTTCAA GGTGGACTCC GACGACCACT GGGGAGAGTA CTCCTGCGTC TTCTCCCCG      300
AGCCCATGGG CACGGCCAAC ATCCAGCTCC ACGGCCTCC CAGAGTGAAG GCTGTGAAGT      360
CGTCAGAACA CATCNACGAG GGGGAGACGG CCATGCTGGT CTGCAAGTCA GAGTCCGTGC      420
CACCTGTCAC TGA CTGGGCC TGGTACAAGA TCACTGACTC TGAGGACAAG GCCCTCATGA      480
ACGGCTCCGA GAGCAGAGTT CTCGAG                                         506

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(2) INFORMATION FOR SEQ ID NO:535:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 475 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:535:

GAATTCCTCT	TCTTTACCCT	CGTCCTGCCG	GGCACTTTCC	TTAGGTTTGG	TTTCATCTAC	60
AGCTTCTATG	TTCTCTTCAG	CTTGGCTGCT	CTCCCCAGTC	TCCGTTGGAG	GCTGGGCTGT	120
TGCCTTGGCA	GCAGCATCCT	CTGCGGCAGG	GGTGGTGGCA	GCAGCAGCAG	TGACAGCAGC	180
AGGCACATCG	GCTTGTTTAG	GCTCCTCCTT	GGCTGGGGCA	TCTTCAGCCT	TGGAGGACGG	240
CGAGTTATCA	GTGGAAGCTT	TAGTGGCACT	TTCTGTCTCA	GCTGAGCCGG	CCTTCTCCTC	300
TGAGGATGCA	GGAGCCTGGG	GGGCTGCCCTG	CTCTGTGGCA	GCATCACCTT	CCCCCTTCTT	360
CTCCTCGGAA	GGAGTTTCTC	CTGCTTTGCC	GGGCTCATCA	GGCTTGGAGC	CAGTGGCTGG	420
GGCTGCTTCG	GCAGTAGTGG	TGCCTTCTCC	CTTCTTCTCC	ACCCCATCGC	TCGAG	475

(2) INFORMATION FOR SEQ ID NO:536:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 501 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:536:

GAATTCGCCT	TCATGGCCTA	CAAGCTCTAG	CCTAGACCTT	TAGTGTGCCA	TGCAGTCACA	60
GGTCTGAAAA	GCAGCATCAT	CCAAACCTTA	CTTAATCTCT	AAAATCTCAG	CTGGTGGACA	120
GCTCATGATT	AGTTCAGCCC	ACTTCCTCCC	CCTTAGTTGA	GTTTGCAGCA	GGACGCAGGA	180
GATAAGCACT	TCCAAGCAAG	TCTGATTTAT	ATATCAAAC	CGGTCTCCAT	CCCAGGCCAG	240
CTGACCCTCA	GAGCCAGCAA	TGCTCTGTGC	TTCTCCCTG	CGTCACGGCT	TGGCAAGAGC	300
TGCCTCTGCT	GAGCAGTGTG	TGTGATGGAG	ACGGAGGCCG	CTGAAGGCCG	AGTGCTTGCA	360
GGCTTGTGAA	CTGCCATCGA	ACACAATCCA	AACTCTGGAA	ATGTTCTCTGA	CCACCTAAGC	420
CCTCAACAAC	GTAATGCCTG	TATGTGCTNT	TTNTCAGTAA	ACTCCTTGCT	CATGTCNATA	480
AAGTATCCCT	GAACACTCGA	G				501

(2) INFORMATION FOR SEQ ID NO:537:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 297 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:537:

GCGGGCACCA	TTTCCAGTAT	GTACCAAACC	AAAGCCGTCA	TCATTGCAAT	GATCATCACT	60
GCGGTGGTAT	CCATTTCAGT	CACCATCTTC	TGCTTTCAGA	CCAAGGTGGA	CTTCACCTCG	120
TGCACAGGCC	TCTTCTGTGT	CCTGGGAATT	GTGCTCCTGG	TGACTGGGAT	TGCTACTAGC	180
ATTGTGCTCT	ACTTCCAATA	CGTTTACTGG	CTCCACATGC	TCTATGCTGC	TCTGGGGGCC	240
ATTTGTTTCA	CCCTGTTTCT	GGCTTACGAC	ACACAGCTGG	TCCCAGGGAA	CCTCGAG	297

(2) INFORMATION FOR SEQ ID NO:538:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 276 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:538:

GCTCCACCAG	CTACTGAGAA	AATGGCCTGT	AAAGATCCAG	AAAAACCCAT	GGAGGCCTGT	60
GCCTCAGCAC	ATGTGCAACC	CAAGCCTGCC	CCTGAAGCCA	GTAGCCTAGA	GGAGCCCCAT	120
AGCCCAGAAA	CAGGGGAGAA	GGTAGTAGCA	GGAGAGGTAA	ACCCACCCAA	TGGCCCTGTG	180
GGGGACCCAC	TGAGCCTCTT	GTTTGGGGAT	GTGACATCCC	TGAAAAGCTT	TGATTTCATTG	240
ACAGGTTGTG	GTGACATAAT	AGCAGAACAA	CTCGAG			276

(2) INFORMATION FOR SEQ ID NO:539:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 267 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:539:

GAATTCGGCC	TTCATGGCCT	AGCCAGACAA	CTGTACTGA	TCITTCTTTG	CTTGCCTAC	60
TAATCACACA	CACCCTCTCT	TCTAGCCTGT	GAAGACTTAA	CTGATTTTCT	ACGGATGAAG	120
GTTTCAGTGT	CCCAAGGCC	CATACCGTAT	CTGATTTTAC	TTTATTTTGT	TTGTTAAGC	180
CTAACAGCTT	CTGAGGAGCC	ACGTAGAGCT	CAAGAAGCAA	AAGCTACTGA	GAGTAGATGC	240
TATGTAAACT	GCACAAGACG	TCTCGAG				267

(2) INFORMATION FOR SEQ ID NO:540:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 379 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:540:

GAATTCGGCC	TTCATGGCCT	ACAAAAAGAT	GCTGGACAAG	GCGTTTGAG	AGCGGATCAT	60
CCATGACTAC	AAGGATATTT	TCAAACAAGC	AACTGAAGAC	AGGCTCACCA	GTGCCAAGGA	120
ACTGCCCTAT	TTTGAAGGTG	ATTTCTGGCC	CAATGTGTTA	GAAGAGAGCA	TTAAGGAACT	180
AGAACAAGAA	GAAGAGGAGA	GGAAAAAGGA	AGAGAGCACT	GCAGCCAGTG	AAACCACTGA	240
GGGCAGTCAG	GGCGACAGCA	AGAATGCCNA	GAAGAAGAAC	NACNAGAAAA	CCAACAAGAA	300
CAAAAGCAGC	ATCAGCCGCG	CCAACAAGAA	GAAGCCCAGC	ATGCCCAACG	TGTCCAATGA	360
CCTGTCCCAG	AAACTCGAG					379

(2) INFORMATION FOR SEQ ID NO:541:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 307 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:541:

GAATTCGGCC TTCATGGCCT ACATAATTG AATCAACACA ACCACCCACA GCCTAATTAT	60
TAGCATCATC CCTCTACTAT TTTTAAACCA AATCAACAAC AACCTATTTA GCTGCTCCCC	120
AACCTTTTCC TCCGACCCCC TAACAACCCC CTCCTAATA CTAACCTACCT GACTCCTACC	180
CCTCACAATC ATGGCAAGCC AACGCCACTT ATCCAGTGAA CCACTATCAC GAAAAAACT	240
CTACCTCTCT ATACTAATCT CCNNACAAAT CTCCTTAATT ATAACATTCA CAGCCACAGA	300
TCTCGAG	307

(2) INFORMATION FOR SEQ ID NO:542:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 353 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:542:

GGATGGCGCC GCGGAGGGTC AGGTCGTTTC TCGCGGGCT CCCGGCGCTG CTAAGTCTGC	60
TGCTCTTCTT CCGGCCCTGG CCCGCTGCCA GCCACGGCGG CAAGTACTCG CGGGAGAAGA	120
ACCGAGCCAA GCCGTCCCCG AACCGCGAGT CCGGAGAGGA GTTCCGCATG GAGAAGTTGA	180
ACCGAGCTGT GGAGAAGGCC CAGCGACTGC ATCTTCCTCC CGTGAGGCTG GCCGAGCTCC	240
ACGCTGATCT GAAGATACAG GAGAGGGACG AACTCGCCTG GAAGAACTA AAGCTTGACG	300
GCTTGACGA AGATGGGGAG AAGGAAGCGA GACTCATACG CAACACACTC GAG	353

(2) INFORMATION FOR SEQ ID NO:543:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 310 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:543:

GGATACCCTA AAAAAACAAT CTATGTCAGA GGCTTCACTG GAGGTTACGT CAGTTATCG	60
TATTAATTTA GAAGATGAGA CACAGGATTT AAAGAAGAAA TTAGGTCAAA TCAGAAATCA	120
ATTGCAAGAA GCACAGGATC GACATACAGA AGCTGTCAGA TGTGCTGAGA AGATGCAAGA	180
TCACAAGCAA AAGCTTGAAA AAGATAATGC CAAGTTAAAA GTTACAGTCA AAAAGCAAAT	240
GGACAAAATT GAGGAGCTTC AGAAAAACCT GTTAAATGCA AATTGTCTG AAGATGAAAA	300
GGAAGTCGAG	310

(2) INFORMATION FOR SEQ ID NO:544:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 282 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:544:

GTTTGGATGA TTGGTGGCGT GTACGCAGCT GCTATGGCCT GGGCCATCAT CCCCCACTAT	60
GGGTGGAGTT TTCAGATGGG TTCTGCCTAC CAGTTCCACA GCTGGAGGGT CTTCGTCCTC	120

GTCTGCGCCT	TTCCTTCTGT	GTTTGCCATT	GGGGCTCTGA	CCACGCAGCC	TGAGAGCCCC	180
CGTTTCTTCC	TAGAGAAATG	AAAGCATGAT	GAGGCCTGGA	TGGTGCTGAA	GCAGGTCCAT	240
GATACCAACA	TGCGAGCCAA	AGGACATCCT	GAGCGACTCG	AG		282

(2) INFORMATION FOR SEQ ID NO:545:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 362 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:545:

GAATTCGGCC	TTCATGGCCT	AGAACTTTGT	ACACCATGGA	ATGTTCTACT	TATTATTTTG	60
TGCTACAATA	TGTGCTGTTT	CTTTTGTTTG	AATTGCAGAT	TGTCTACTAT	GAAGCAGGGA	120
TTATTCTATG	CTGTGTCCTG	GGGCTGCTGT	TTATTATTCT	GATGCCTCTG	GTGGGGTATT	180
TCITTTGTAT	GTGTCGTTGC	TGTAACAAAT	GTGGTGGAGA	AATGCACCAG	CGACAGAAGG	240
AAAATGGGCC	CTTCCTGAGG	AAATGCTTTG	CAATCTCCCT	GTTGGTGATT	TGTATAATAA	300
TAAGCATTGG	CATCTTCTAT	GGTTTTGTGG	CAAAACACCA	GGTAAGAAC	CGGATCCTCG	360
AG						362

(2) INFORMATION FOR SEQ ID NO:546:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 315 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:546:

TCGAGGGACA	TGAGGCTGAG	CTGGTTCCAG	GTCTGACAG	TACTGTCCAT	CTGCCTGAGC	60
GCCGTGGCCA	CGGCCACGGG	GGCCGAGGGC	AAAAGGAAGC	TGCAGATCGG	GGTCAAGAAG	120
CGGGTGGACC	ACTGTCCCAT	CAAATCGCGC	AAAGGGGATG	TCCTGCACAT	GCACTACACG	180
GGGAAGCTGG	AAGATGGGAC	AGAGTTTGAC	AGCAGCCTGC	CCCAGAACCA	GCCCTTTGTC	240
TTCTCCCTTG	GCACAGGCCA	GGTCATCAAG	GGCTGGGACC	AGGGGCTGCT	GGGGATGTGT	300
GAGGGGGACC	TCGAG					315

(2) INFORMATION FOR SEQ ID NO:547:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 449 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:547:

GAATTTTAAT	TAAGAATTCTG	GCCTTCATGG	CCTAATCGAG	GAGAATGGAG	ACCAAACCTG	60
TGATAACCTG	TCTCAAAACC	CTCCTCATCA	TCTACTCCTT	CGTCTTCTGG	ATCACTGGGG	120
TGATCCTGCT	GGCTGTTGGA	GTCTGGGGCA	AACTTACTCT	GGGCACCTAT	ATCTCCCTTA	180
TTGCCGAGAA	CTCCACAAAT	GCTCCCTATG	TGCTCATCGG	AACTGGCACC	ACTATTGTTG	240

TCTTTGGCCT	GTTTGGATGC	TTTGCTACAT	GTCTGGTAG	CCCATGGATG	CTGAAACTGT	300
ATGCCATGTT	TCTGTCCCTG	GTGTTCCCTGG	CTGAGCTCGT	AGCTGGCATT	TCAGGGTTTG	360
TGTTTCGTCA	TGAGATCAAG	GACACCTTCC	TGAGGACTTA	CACGGACGCT	ATGCAGACTT	420
ACAATGGCAA	TGATGAGAGA	ATGCTCGAG				449

(2) INFORMATION FOR SEQ ID NO:548:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 374 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:548:

GGGCTTTAAA	GGCAGACATT	GATGCTACAT	TATATGAACA	AGTCATCCTG	GAAAAAGAAA	60
TGGGAACCTA	TTTGGGCACC	TTTGATGATT	ACTTGGAGTT	ATTCTGCAG	TTTGGTTATG	120
TGAGCCTTTT	CTCCTGTGTT	TACCCATTAG	CAGCTGCCTT	TGCTGTGTTA	AATAACTTCA	180
CTGAAGTAAA	TTCAGATGCC	TTAAAAATGT	GCAGGGTCTT	CAAACGTCCA	TTCTCAGAAC	240
CTTCAGCCAA	TATTGGTGTG	TGGCAGTTGG	CTTTTGA AAC	GATGAGTGTT	ATATCTGTGG	300
TCACTAACTG	TGCGCTGATT	GGAATGTCAC	CACAAGTGAA	TGCAGTCTTT	CCAGAATCAA	360
AGGCAGACCT	CGAG					374

(2) INFORMATION FOR SEQ ID NO:549:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 294 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:549:

GTACAATCTG	AATCCAGGTC	TGACAGCTGG	CCATACAAAG	TCATACTTTC	CCCACATCCC	60
TCCTCTTTGA	TAGGCATTGT	CATCTAGAGC	AATAGCCTCG	AAATAGACTG	AACACCGTGG	120
CCCATAGCTT	AACTCCGTTC	CACCTCTATT	TCAAAGTAAA	CTTGGGCTGG	GATTACAGGC	180
ATGAGTATGT	TTTCATTGT	ACATAAGAC	TTTATACAAA	TGCTCTTCCT	AATATTTGCT	240
ACTTATTTTT	GCATTAGTTC	AAATCTTTG	TCCTGTCATC	CCAAAACCTCT	CGAG	294

(2) INFORMATION FOR SEQ ID NO:550:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 303 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:550:

GAATTCGGCC	TTTATGGCCT	ACACTGCACG	GGGAACCCCC	GAACCATCAT	CGTGCCACCC	60
CTGAAAACCC	AGGCCAGCGA	AGTATTGGTG	GAGTGTGATA	GCCTGGTGCC	AGTCAACACC	120
AGTCAACCACT	CGTCTCCTA	CAAGTCCAAG	TCCTCCAGCA	ACGTGACCTC	CACCAGCGGT	180
CACTCTTCAG	GGAGCTCATC	TGGAGCCATC	ACCTACCGGC	AGCAGCGGCC	GGGCCCCCAC	240

TTCCAGCAGC AGCAGCCACT CAATCTCAGC CAGGCTCAGC AGCACATCAC CACGGCCGTC 300
GAG 303

(2) INFORMATION FOR SEQ ID NO:551:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 375 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:551:

GCCACAAGCC TGTCAGCAAG TGGGGCTACT TGGGTCCTCG GGCCTCAATC CACTCCTGGC 60
 CAGAGACAAC TTCCTCTCCC ATGGGAAAGG CTAACGCATG CCCATAAATT AAGACATTGG 120
 CTCTCCCTCC AAGCCCTGGA AACCTGGGAC TCTCTAACAT CTACCTCTGT TTTCTTTGGC 180
 TGCATTCAAC TTTCTGCAA TTAGTCAGGC CCTGGGGCAG CAGTTAGACG ACAGATGAGT 240
 CAGAGGATTG CAGAATCTAA TCCAGAAGGA AGAGTTTATC CAAATGTTGG TGGCCTTTCT 300
 CTTTTGGCGC ATTCTCTTCT GGTTCGTCT TTTCTCAGGA GTCCTCTGAG CTTCCATGTA 360
 CCGGGCCCCC TCGAG 375

(2) INFORMATION FOR SEQ ID NO:552:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 390 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:552:

GCAAGGGCAG GCGGGTCCCC CAGTCCCGCC ATTACGGGTT GTCAGACCGT CTGCGTGTGG 60
 CAGGGCTCCC AAGGGCAGGC GGGTCCCCCA GTCCCGCCAT TACGGGTTGT CAGACCGTCT 120
 GCGTGTGGCA TTTTTTGGCT TATAAGCTTC ACCCACTCAC CCCCAACCA CACCCACAT 180
 CCCCCGCG GCAGCCCTC AACCTAAGAA GGCCAGAGCA TATTTATTTT CCGAGGGAGC 240
 AGATTACTTC TCCAGAGAA AGGAAAATCT TGGAAAAGAT TTAAAAACAC AAATCTAAGC 300
 CTTGACGGTT TTTTTTCCC TTTTGACCCC CTTCCCATTT TTTCAGNATT TATTCCCATG 360
 GCTTTTTTTT TTCTGTGCG TGTTCGAG 390

(2) INFORMATION FOR SEQ ID NO:553:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 620 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:553:

GAATTCGGCC AAAGAGGCCT AAGCAGGCGC GAGGCGGCGG CAGCGAGCCG GGTCCCACCA 60
 TGGCCGCGAA TTATTCCAGT ACCAGTACCC GGAGAGAACA TGTCAAAGTT AAAACCAGCT 120
 CCCAGCCAGG CTTCTCGGAA CGGCTGAGCG AGACCTCGGG TGGGATGTTT GTGGGGCTCA 180
 TGGCCTTCCT GCTCTCCTTC TACCTAATTT TCACCAATGA GGGCCGCGCA TTGAAGACGG 240

CAACCTCATT	GGCTGAGGGG	CTCTCGCTTG	TGGTGTCTCC	CGACAGCATC	CACAGTGTGG	300
CTCCGGAGAA	TGAAGGAAGC	TGGTGCACAT	CATTGGCGCC	TTACGGACAT	CCAAGCTTTT	360
GTCTGATCCA	AACTATGGGG	TCCATCTTCC	GGCTGTGAAA	CTGCGGAGGC	ACGTGGAGAT	420
GTACCAATGG	GTAGAACTG	AGGAGTCCAG	GGAGTACACC	GAGGATGGGC	AGGTGAAGAA	480
GGAGACGAGG	TATTCTTACA	ACACTGAATG	GAGGTCAGAA	ATCATCAACA	GCAAAAACCTT	540
CGACCGAGAG	ATTGGACACA	AAAACCCAG	TGCCATGGCA	GTGGAGTCAT	TCATGGCAAC	600
AGCCCCCTTT	GTTCTCGAG					620

(2) INFORMATION FOR SEQ ID NO:554:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 600 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:554:

GAATTGGGCC	AAAGAGGCCT	AGGACTTGTT	TCGGAAGGAG	CTGACTGGCC	AATCACAATT	60
GCGAAGATGA	AGGCTCTGTG	GGCCGTGCTG	TTGGTCACAT	TGCTGACAGG	ATGCCTAGCC	120
GAGGGAGAGC	CGGAGGTGAC	AGATCAGCTC	GAGTGGCAAA	GCAACCAACC	CTGGGAGCAG	180
GCCCTGAACC	GCTTCTGGGA	TTACCTGCGC	TGGGTGCAGA	CGCTGTCTGA	CCAGGTCCAG	240
GAAGAGCTGC	AGAGCTCCCA	AGTCACACAA	GAACCTGACGG	CACTGATGGA	GGACACTATG	300
ACGGAAGTAA	AGGCTTACAA	AAAGGAGCTG	GAGGAACAGC	TGGGTCCAGT	GGCGGAGGAG	360
ACACGGGCCA	GGCTGGGCAA	AGAGGTGCAG	GCGGCACAGG	CCCGACTCGG	AGCCGACATG	420
GAGGATCTAC	GCAACCGACT	CGGGCAGTAC	CGCAACGAGG	TGCACACCAT	GCTGGGCCAG	480
AGCACAGAGG	AGATACGGGC	GCGGCTCTCC	ACACACCTGC	GCAAGATGCG	CAAGCGCTTG	540
ATGCGGGATG	CCGAGGATCT	GCAGAAGCGC	CTAGCTGTGT	ACAAGGCAGG	GGCAGTCGAG	600

(2) INFORMATION FOR SEQ ID NO:555:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 262 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:555:

GAATTGGGCC	TTCATGGCCT	AGTATTTCTT	TATCACAGAT	TTTGGGAGCA	ACAGTGTTTT	60
CCCATCTGGA	GGAGGCTGAG	TTAATTCTGT	GGAACACCCA	TTTGGTTGGA	AATAAAAACA	120
CAGCATGGAT	TTAATTCATG	CCACTTATTT	ATTTTATTAT	GGACTTGAGC	TTCTTTGTAT	180
TTTTTTTGCT	TTGCTTCCAC	TCAAAACCAG	ATTTGGTGGT	TGCTGTGTAA	ACAGTGAAAT	240
ACAACACAGG	CCAGGACTCG	AG				262

(2) INFORMATION FOR SEQ ID NO:556:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 470 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:556:

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GAATTCGGCC AAGAGGCCTA GTATTCTTTC GTTCTCTCT AAAAGAAGAA AAATATAATT      60
TAGAAATACA TTGCGTATTT TCTAAAACAA TAAATTTATA GTGTTAATAT TCATAGGGTC      120
AATCAAAATG AAGCTTCTCC TTTGGGCCTG CATTGTATGT GTTGCTTTTG CAAGGAAGAG      180
ACGGTTCCCC TTCATTGGTG AGGATGACAA TGACGATGGT CACCCACTTC ATCCATCTCT      240
GAATATTCCT TATGGCATAAC GGAATTTACC ACCTCCTCTT TATTATCGCC CAGTGAATAC      300
AGTCCCCAGT TACCCTGGGA ATACTTACAC TGACACAGGG TTACCTTCGT ATCCCTGGAT      360
TCTAACTTCT CCTGGATTCC CCTATGTCTA TCACATCCGT GGTTTTCCCT TAGCTACTCA      420
GTTGAATGTT CCTCCTCTCC CTCCTAGGGG TTTCCCGTTT GTCCTCGAG      470

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(2) INFORMATION FOR SEQ ID NO:557:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 432 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:557:

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GAATTCGGCC AAAGAGGCCT ATGCAGATTC TGTGGTTATA CTCCTCCTC ATCCCAAAGA      60
ATGAAATTTA CCACTCTCCT CTTCTTGGA GCTGTAGCAG GGGCCCTGGT CTATGCTGAA      120
GATGCCTCCT CTGACTCGAC GGGTGCTGAT CCTGCCAGG AAGCTGGGAC CTCTAAGCCT      180
AATGAAGAGA TCTCAGGTCC AGCAGAACCA GCTTCACCCC CAGAGACAAC CACAACAGCC      240
CAGGAGAGTT CGGCGGCAGC AGTTCAGGGG ACAGCCAAGG TCACGTCAAG CAGGCAGGAA      300
CTAAACCCCC TGAAATCCAT AGTGGAGAAA AGTATCTTAC TAACAGAACA AGCCCTTGCA      360
AAAGCAGGAA AAGGAATGCA CGGAGGCGTG CCAGGTGGAA AACAATTCAT CGAAATGGA      420
AGTTCCTCG AG      432

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(2) INFORMATION FOR SEQ ID NO:558:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 104 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:558:

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GAATTCGGCC AAAGAGGCCT AAAAAGTATA TACATTTTAG TACTGCTTTG ATTTTGTTTA      60
CATACTGAAA AATGTATCTG AAAATGAGTT ATTTTGGACT CGAG      104

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(2) INFORMATION FOR SEQ ID NO:559:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 203 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:559:

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GAATTCGGCC AAAGAGGCCT ATTCACTTCA GCTTCACTGA CTTCTGGATT CTCCTCTTGA      60

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GTAAAAGGAC TCAGCCAACT ATGAAGTTT TTGTTTTGTC TTAAATCTTG GCTCTCATGC	120
TTTCCATGAC TGGAGCTGAT TCACATGCAA AGAGACATCA TGGGTATAAA AGAAAATTCC	180
ATGAAAAGCA ACATGATCTC GAG	203

(2) INFORMATION FOR SEQ ID NO:560:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 484 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:560:

GAATTCGGCC ACAGAGGCCT AGCCAGTCT CGGGTATGTC TTTATCAGCA GCATGAAAAT	60
GGACTAATAC AGTTGCTATG ATTATTAGTT TTTTGCTACT GAGTTGTAGG AGTATCTGAT	120
ATATATTTTG GTAACATAATC CCTTATAAAA TATATTGTTT CCAAATATTT TTTTCCATT	180
CCATAGGCTG CCTTTTCATT CTGTTGTTTC CTTTGCTTCA GGTAAGGGAT TCTGAAACAA	240
CTATTTGGGC AGCAGAACAG CTTCTTTTGT TTGCTTTCTC ATTGTCTACT GTGTTCTGCA	300
TAAATAAGGT TATGAATTAG CTGTTGTTCA TATGGGTGAA AGATTTCAT CTGTGGACGC	360
TTAGATAGCA CATATGGTAA ACCATAGAAC TTCACCATTT ATAACCTTTG AACAACTGAT	420
ACACTTAGAA AAGCAGTTT TGGCTGGCG CGGTGGCTCA TGCCTGTAAT CCCTAGGCCT	480
CGAG	484

(2) INFORMATION FOR SEQ ID NO:561:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 176 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:561:

GAATTCGGCC AAAGAGGCCT ATTGAATTCT AGACCTGCCT CGAGCTGACA ACTATGAAGT	60
TTTTTGTTTT TGCTTTAATC TTGGCTCTCA TGCTTTCCAT GACTGGAGCT GATTCACATG	120
CAAAGAGACA TCATGGGTAT AAAAGAAAAT TCCATGAAAA GCATCAAGGA CTCGAG	176

(2) INFORMATION FOR SEQ ID NO:562:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 475 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:562:

GAATTCGGCC AAAGGCCTA ATTTATTAA TAACATTTTA AAAACAACAA TTATGAAAAA	60
GCAATTCGGT TTACCGCTGA TGCTGCGTC AGCCCTCGCC TTCTCTGCTT GTAGCTCTGA	120
TGATGTGGCC GAGAATGGCC CAAAGGACAT CGCAGCTCTT ACAGATGGTG GTTACTTGAA	180
GATGTCTATC AATCTTCCTT CCCGTGCTGC TAATGGTGCC TTCAGAGCTA CGGAACAAGA	240
CGGTTATGTT AACTTGAAG ATGGATTGGC AAAAGAGTAC AATGTAAAGG ATGCTATCCT	300

CGTCCTTTTC CAAGGTGATA ATGAAGCAGA TGCCAAGTTC CATTCTGCAT ATGAACTTAC	360
TACATCAATG CAGAAGGATG GCTCTACGCA AATCACTTCC ACAACGAAAC TTGTTAAGAA	420
TGTGAATATT GGTGGTCAGG GAAATCCTCT TAAACCTGCT GATGTTAAGC TCGAG	475

(2) INFORMATION FOR SEQ ID NO:563:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 204 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:563:

GAATTCGGCC AAAGAGGCCT ACAATTATGG GGCTTATGGG GAACATGCTC ATTGTGTTTT	60
ACCAATCAGG ACATGGAAC TAAACAATAT TTGTTGACTT ATAGTGAAAC CTGGCTAATT	120
AGGACTCTTA ACCAGCACTC TTAATTAAC TACTTATTTT TCTCTGTGTC CACCCCTCTT	180
AAAGAAAAAG AAGCGAACT CGAG	204

(2) INFORMATION FOR SEQ ID NO:564:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 102 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:564:

GAATTCGGCC AAAGAGGCCT ATAGGCCTCT TTGGCCGTAG GCCTCTTTGG CCGATTGAAT	60
TCTAGACGCG GCTCGAGGCA GGTCTAGGCC TCTTTGGCCG AA	102

(2) INFORMATION FOR SEQ ID NO:565:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 285 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:565:

GAATTCGGCC AAAGAGGCCT ACTCAATTGT TCCTTTCTTC CATCACCACC CTTTGAAGGT	60
CTCTTTGCCT ACTGTAGAT TTAGGGGGAC ATAACATTGA GACTGAGCAG TTTCTTGAAC	120
CTCTCCTCTC AGCAGCCACC AGCCTGGCTT TCGCAGACCA CTGGAAAGTA TCCCAGCTCA	180
TTAGCTTTTG GAATGACGGG AAGCCTTTTG ATGTTNGACG TCTTAATCTC AACTCTTCAA	240
CTTAGCTCAT TCTGGAGCAG TCACGCGATG ACAGATGAGC TCGAG	285

(2) INFORMATION FOR SEQ ID NO:566:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 259 base pairs
 - (B) TYPE: nucleic acid

- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:566:

GATAACTTGA GATCAAATCA GTCATATTG ACTCTTCTCT TTTTCACTCC TTTTATATCT	60
GATCAGTCAG CAGTTTTTTG AAACCCTGTT CGAAGCAGTT CTCAACACTT GTGCACCCAT	120
TCTTTCTCCT ACACCACTCA ATCTAGACCC TCACATGTGG CTGTCCTGCT TTCCTTCTCT	180
CCTACTTCTA AGCTATTCTG TGGAGAGATG TCAAAGTAAT CTTCACAAAA AATCTGATTG	240
CATCACTTCA CATCTCGAG	259

(2) INFORMATION FOR SEQ ID NO:567:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 374 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:567:

GGGCITTTAA GGCAGACATT GATGCTACAT TATATGAACA AGTCATCCTG GAAAAAGAAA	60
TGGGAACCTTA TTTGGGCACC TTTGATGATT ACTTGAGATT ATTCTGCAG TTGGTTATG	120
TGAGCCTTTT CTCCTGTGTT TACCCATTAG CAGTCGCCTT TGCTGTGTTA AATAACTTCA	180
CTGAAGTAA TTCAGATGCC TTAATAATGT GCAGGCTCTT CAAACGTCCA TTCTCAGAAC	240
CTTCAGCCAA TATTGGTGTG TGGCAGTTGG CTTTGTAAAC GATGAGTGT ATATCTGTGG	300
TCTACTAATG TGCCTGTGTT GGAATGTCAC CACAAGTGAA TGCAGTCTTT CCAGAATCAA	360
AGGCAGACCT CGAG	374

(2) INFORMATION FOR SEQ ID NO:568:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 250 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:568:

GAATTCGGCC TTCATGGCCT AGATAAGTAA ATAGACTTAC AGAGGGAAAG TAACTTGGCT	60
AAGGTGAACT TGAACCAAGA TGAAGTACTC CAGAGCTTCC ATTTTCTTT TTCTTTCTTT	120
TTTTTTTTTT NGGAGACAGA GTCTCACTCT GTCGCCAGG CTGGAGTGCA ACGGCGGGT	180
CTCCACTCAC TGCAGCTCC AGCTCCTGGG CTCAAGTGAT CCTCCACCT CAGCACCCCC	240
ACGTCTCGAG	250

(2) INFORMATION FOR SEQ ID NO:569:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 367 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:569:

```
GAATTCGGCC TTCATGGCCT ACAGGGAGGG AGGGGTTCTG AGAGCCTCAG ACCACAGGGC    60
CTGAGGCCCA CAGTGGCCCA GAGTCCATCT GGCAGCCCCT GCTCTGCTGG CCCAGGGGGC    120
TCTCCCCAGG GTGGAGTAGG CAGGGGAGGG TCGCTGGTCC CCAGTCCCAG CCTTCGAGAG    180
GTGGGGCCAG ACAGCAGGGC ACCCGTACCC GAGACCACAG TGCTCCCCAA GGCCAGCTCT    240
CTCCCCAGTG AGGTCACTCC TACCTCCGGG GCCATTTGGG GCGGGGGATC CTGTAGATCT    300
CTGACTCTGC GCGCCTTAT CTTGATGGCC TGCNCAAGA AGGGAGGGCG CTGCCACTT    360
CCTCGAG
```

(2) INFORMATION FOR SEQ ID NO:570:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 262 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:570:

```
TTTTGACTGA CTCTTTAAAT TAGTACAATT TTTCTACTTG TCATATAACT CCTGGAACAA    60
TAGTACGGGA AGCCGTGATC CTTTCCCTG ACTCATGATT TTAGTCTTTT TCCAAATCGC    120
TGTTTTTTTT TGGTTTTTTT TTTTTTGGCT GCTCCAACGA CCAGCATGTG TTGGAGCAGA    180
TCTCCATGGT AAGCCAAAAG TGGACTTGTC AGCCTATAAC TACTCTGCAG CTGCCACTAA    240
CTCTACAGGC ACAGAGCTCG AG
```

(2) INFORMATION FOR SEQ ID NO:571:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 307 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:571:

```
CAGAAACTCT TGGACTCAAA AGAGAAAGAA AAAAGTCAAG CCAAGGAAAG CACAAGAGGT    60
AAGACAGGCC TAGTGATCTC AGCAGGCAGA ATTTATGGAC ATATTTTGCA GGCAAGTGGT    120
TCTCAATCAG GGGTGATTTT TGGCTTGTA GACATTTAG CAATATCTGG ACACATTTT    180
TGGTTGTGCT AAGTGGATGG GGGTTGCTGC TATCATCCTA CAATGCATAG GTGCATTAGT    240
CTGTTTTCAT GCTGCTGATA AAGACATACC GGAGACTGGG CAATTGCAA ATGAGAGATG    300
GCTCGAG
```

(2) INFORMATION FOR SEQ ID NO:572:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 578 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:572:

GAATTCGGCC	TTCATGCCTA	CAGCCATATT	AAAACCTAAGT	AAACTCGTCC	CTGGGAACTA	60
CACTTTCAGC	TTGACTGTAG	TAGACTCTGA	TGGAGCTACC	AACTCTACTA	CTGCAAACCT	120
GACAGTGAAC	AAAGCTGTGG	ATTACCCCCC	TGTGGCCAAC	GCAGGCCCCA	ACCAAGTGAT	180
CACCCTGCCC	CAAACTCCA	TCACCCTCTT	TGGGAACCAG	AGCACTGATG	ATCATGGCAT	240
CACCAGCTAT	GAGTGGTCAC	TCAGCCCAAG	CAGCAAAGGG	AAAGTGGTGG	AGATGCAGGN	300
TGTTAGAACA	CCAACCTTAC	AGCTCTCTGC	GATGCAAGAA	GGAGACTACA	CTTACCAGCT	360
CACAGTGACT	GACACAATAG	GACAGCAGGC	CACTGCTCAA	GTGACTGTTA	TTGTGCAACC	420
TGAAAACAAT	AAGCCTCATC	AGGCAGATGC	AGGCCCAGAT	AAAGAGCTGA	CCCTTCCTGT	480
GGATAGCACA	ACCCTGGATG	GCAGCAAGAG	CTCAGATGAT	CAGAAAATTA	TCTCATATCT	540
CTGGGAAAAA	CACAGGGACC	TGATGGGTGC	AGCTCGAG			578

(2) INFORMATION FOR SEQ ID NO:573:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 623 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:573:

GAATTCGGCC	TTCATGGCCT	AACCTTGTGT	GATCAGAGTT	TATGGGTGG	GCTGCCCCAG	60
GCTTGGATAA	CTTAAAGGCT	TGATGAGGTC	ATCAATTAT	GCTTGGCTAC	CCATGGCACA	120
GAAGCATAGC	CCCACTGTGA	TGGCTGGGGT	GGCTCCGGGC	ATCCTGGGCA	GTGAGGAGGA	180
AACTCCATGA	AGGAAGGAGC	TAACCTTTCT	GGGGGTACCC	CTATCCAGC	ACAGACTTCC	240
TCATCTCATT	GGTCAGAACT	GGGTCACATG	AACATGCCTC	AGCCTATCAC	AGGCACAGGG	300
AATGAGACCA	TCATGGACCA	ATCAGGATTC	ACCACTCAAG	GTGGGGCCTG	CCATCCGGAT	360
GGATGCTCTC	CGCCACAGGG	AGGTGGGGGA	CCCAGAAGCT	GTGGGCAATG	GCCATGTGCA	420
CAGTAGGACT	GAGGCACTCA	GTCCCGTAGC	TGACCTACCT	GGGACAGGCC	TGGAGGCTGA	480
CTTAGGTGTG	AGGGGCAGAG	AGATTACTGT	GCACAGACCG	CTGTGTGACC	CCAGATCTAG	540
GTGGGATCCC	GGTGTGCCCC	ATCTGCCTGG	CTTACCCCAA	CCCCTCTGGA	ACCTGAACCA	600
TTGAATTCTA	GACCTGCCTC	GAG				623

(2) INFORMATION FOR SEQ ID NO:574:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 277 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:574:

GAATTCGGCC	TTCATGGCCT	ACTCCAGAAT	GAAGATCTTC	TTGCCAGTGC	TGCTGGCTGC	60
CCTTCTGGGT	GTGGAGCGAG	CCAGCTCGCT	GATGTGCTTC	TCCTGCTTGA	ACCAGAAGAG	120
CAATCTGTAC	TGCCTGAAGC	CGACCATCTG	CTCCGACCAG	GACAACTACT	GCGTGACTGT	180
GTCTGTCTAGT	GCCGGCATTG	GGAATCTCGT	GACATTTGGC	CACAGCCTGA	GCAAGACCTG	240
TTCCCGGCC	TGCCCCATCC	CAGAAGGCCT	GCTCGAG			277

(2) INFORMATION FOR SEQ ID NO:575:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 251 base pairs

(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:575:

```
GAATTCGGCC TTCATGGCCT AAGCTTTTGC TTTTTTAATA ACTTGTATAG CTAAAAACTT    60
GACGGTGAAA AGCTCTCAGA TCAAAGCTGA TCCTTCTGTC AGTAATGATT CTAAAAATAA    120
GCAAGATTTT AATGGGGAAT ATATTTTATT TCATTCTTAT CTCAAACCTA GGTACTGTGG    180
TCGTTTTGAG TTCATTTTGA GGCATTTTCA ATGTGCCTCA GGCCACATCC AACCTCTCCC    240
CAGAACTCGA G                                     251
```

(2) INFORMATION FOR SEQ ID NO:576:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 261 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:576:

```
GAATTCGGCC TTCATGGCCT ACAGTCTAAG ACATTTCTTA TTCTGCCTTC TTGTCTTCCT    60
CCCTCTCTTC CACATTGGTC AGACTTACAT CTTGGACAGC TCTCCAGGCC ATCTTCTACT    120
GCCTCCCTAT TTTCCCTCC CAGACTTTTC CCGCAAAAC ATCTGTTGCA GGTGGTATTA    180
ATTTCCTATC ACGGCTGTGA CAAATTACCA CAAACTCAGT GGCTTAAAC AATGCACATT    240
TATTATCTGA CAGTTCTCGA G                                     261
```

(2) INFORMATION FOR SEQ ID NO:577:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 216 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:577:

```
GAATTCGGCT TCATGGCCTA GCAAGACTCC ATCTCAAAAA AAGAAAGAAA GAAAAAGAA    60
AGTACAAGTT TATAAAGTAT TATAGTGAAA AATTCGCATT CTGGCTGATT TTAAGCCATT    120
TAAATTTTAT ATAAACAAC CTTCCATAAA AATTTGACAG GTGCCAGAT GTTGCTTTCT    180
CCATTTATTT TTTGTTTTTT TTTAATCACA CTCGAG                                     216
```

(2) INFORMATION FOR SEQ ID NO:578:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 294 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:578:

GCGATTGAAT TCTAGACCTG CCTCGAGTAA GTGCCGAAAA CTTCACTGTG CTCATCAAGA	60
ACAATATCGA CTTCCCGGC CACAACCTACA CCACGAGAAA CATCCTGCCA GGTTTAAACA	120
TCACCTGTAC CTTCCACAAG ACTCAGAATC CACAGTGTC CATTTTCCGA CTAGGAGACA	180
TCTTCCGAGA AACAGGCGAT AATTTTTCAG ATGTGGCAAT TCAGGTGGT GGTGCTTTGT	240
ACACTGGGAT GTGGGGCTGT GTGTCTAGGG ATGGAGGATG TCAAACAACT CGAG	294

(2) INFORMATION FOR SEQ ID NO:579:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 229 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:579:

GAATTCGGCC TTCATGGCCT ACCTTCACAG AAAAATGCAT AGCTGGATGC TGCAGACTCT	60
AGCGTTTGCT GTAACATCTC TCGTCCTTTC GTGTGCAGAA ACCATCGATT ATTATGGGGA	120
AATCTGTGAC AATGCATGTC CTGTGAGGA AAAGGACGGC ATTTTAACTG TGAGCTGTGA	180
AAACCGGGGG ATCATCAGTC TCTCTGAAAT TAGCCCCCCC GATCTCGAG	229

(2) INFORMATION FOR SEQ ID NO:580:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 205 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:580:

GAATTCGGCC TTCATGGCCT AGCTTACTTT ACAATTCTGC TGTGTGTCAA GTGTTCTTAT	60
AGTTTTTTTT AAAGGTATGT TAACTATTTT TCCTTTTGG TTTATATTG TAGGAATCTT	120
TGCCTTTAAG TGTCCCGTG CAGAAGAATT ATTAAACATG TTGCAAGAGA TTATGCAAAA	180
TAATAGTATA AATGTGGAGC TCGAG	205

(2) INFORMATION FOR SEQ ID NO:581:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 200 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:581:

GAAGTGTAAT GTCAGACACA CAAGAAAAGC AAATCAGTGT TGTAAGCTTA AAGTACAATT	60
TCAAAGGTCA TTACCAACAG CAGGGTTTTT TTTTACTTT AAAAACATTA TGCTACATAT	120
CATTGCCATT TTCATATTTT GGGGTTTTGC TACTCTTATA CAATGGAATC AATGGAATG	180
TCATCCAGCC AGATCTCGAG	200

(2) INFORMATION FOR SEQ ID NO:582:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 321 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:582:

```
GAATTCGGCC TTCATGGCCT ACACAAATGT TTGTTGAGTG CTCATTGTAT GTCTGGAGAC      60
CATTCTGTCT TCTTCCCTAA GAGTGTTCAT GCTGTTGGAC CAGGTGTTAT GATTTTGCTC      120
TGGAGAATAA GGTATTTCCA CATGGAGCAT GTGGAAAATA TAGTGCCTAT CTCCTGAAAG      180
GTCCAGGTGA TGCAAAGATG AATGAGACAT GATTGGAGGT TTTTCTTCTG TCTGAAATGC      240
AGACAGTTCT GGGTTGGGCA GCTCTGTAAG ATGCTGAACA TGTGTCCTTC CAAGAAGCAA      300
GGATCAGAAA GCAGACTCTA G
```

(2) INFORMATION FOR SEQ ID NO:583:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 355 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:583:

```
GAATTCGGCC TTCATGGCCT ACACCATTGA CTTCTTCTAC CGGCCGCATA CCATCACCTT      60
GCTCAGCTTC ACCATCGTCA GCCTCATGTA CTTGCGCTTT ACCAGGGATG ACTCTGTTC      120
AGAAGACAAC ATCTGGAGAG GCATCCTCTC TGTATTATTC TTCTTTCTTA TCATCAGTGT      180
GTTAGCTTTC CCCAATGGTC CGTTCACCTG ACCTCATCCA GCCTTATGGC GAATGGTTTT      240
TGGACTCAGT GTGCTCTACT TCCTGTTCTT GGTATTCTTA CTCTTCCTGA ATTTCGAGCA      300
GGTTAAATCT CTAATGTATT GGCTAGATCC AAATCTTCGA TACGGCCACC TCGAG      355
```

(2) INFORMATION FOR SEQ ID NO:584:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 374 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:584:

```
GGAAACTTCT AGAAATAATG ACAAGGATTC AAACCTATTG TCAAATGAGT CCAATGTCAG      60
ATTTTGGAAC TCAACCCTAT GAACAATGGG CCATTCAAAT GGAAAAAATA GCTGCAAAAG      120
AAGGAAATCG CAAAGAACGT GTTTGTGCAG AACATTGAG GAAGTACAAT GAGGCCCTAC      180
AAATTAATGA CACAATTCGA ATGATAGATG CGTATACTCA TCTTGAAACT TTCTATAATG      240
AAGAGAAAGA TAAGAAGTTT GCAGTCATAG AAGATGATAG TGATGAGGGT GGTGATGATG      300
AGTATTGTGA TGGTGATGAA GATGAGGATG ATTTAAAGAA ACCTTTGAAA CTGGATGAAA      360
CAGATAGACT CGAG
```

(2) INFORMATION FOR SEQ ID NO:585:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 295 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:585:

```
GAATTCGGCC TTCATGGCCT AGAGAACTG AGAGGAAGTT AAAGATTGT CTTACAAAGG      60
CTGTGTAGTG ATAAGACCTA AGGTTTCTC TGAGATTCAA AATGGGTATT ATTGTTCTT      120
TAATCCTTCT GATTATTCTT TTGGAAAAA GGAAGTAGA GGAAAGGAAG TAGAAAAATA      180
ATATTTCTTA TACTTATTAT GTACCAGACA TGGTGCTAAG TTCATTAAA AACTGCCTC      240
ATTTAATCTT TGCAACCAAT TTATACCAT ACACATAAGG CCACAAAAGC TCGAG          295
```

(2) INFORMATION FOR SEQ ID NO:586:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 325 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:586:

```
GAATTCGGCC TTCATGCCTA AGGTAAGGGA AAGTGAGAAG CAGCAGGATA GTCAGCCTGA      60
AGAAGTTATG GATGTGCTAG AGATGGTTGA GAATGTCAA CATGTAATTG CTGACCAGGA      120
GGTAATGGAA ACTAATCGAG TTGAAAGTGT AGAACCTTCA GAAATGAAG CTAGCAAAGA      180
ATTGGAACCA GAAATGGAAT TTGAAATTGA GCCAGATAAA GAATGTAAAT CCCTTTCTCC      240
TGGGAAAGAG AATGTCAGTG CTTTAGACAT GGAAAGGAG TCTGAGGAAA AAGAAGAAAA      300
AGAATCTGAG CCCCAACCAC TCGAG          325
```

(2) INFORMATION FOR SEQ ID NO:587:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 272 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:587:

```
GAATTCGGCC TTCATGGCCT ACAAGGACGT TAAAGGCATT TTATTCCAGC GTCTTCTAGA      60
GAGCTTAGTG TATACAGATG ACGGTGTCCG CTGCTGCTTT CCTTCGGAAT CCAGTGCTTC      120
CACAGAGATT AGCCTGTAGC TTATATTGA CATTCTTCAC TGTCTGTTGT ATACCTACCG      180
TAGCTTTTTA CCGTTCACCT CCCCTTCCAA CTATGTCCAG ATGTGCAGGC TCCTCCTCTC      240
TGGACTTTCT CCAAAGGCAC TGGACCTCG AG          272
```

(2) INFORMATION FOR SEQ ID NO:588:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 243 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:588:

```
GAATTCGGCC TTCATGGCCT AGCATCCCTG AAACGTGTGA ATTTTGAGGA TCCTTCTGGT    60
CTTAAAGCCA ATTTAGAAGG TGCTAATCTG AAAGGTGTGG ATATGGAAGG AAGTCAGATG    120
ACAGGAATTA ACCTGAGAGT GGCTACCTTA AAAAATGCAA AGTTGAAGAA CTGTAACCTC    180
AGAGGAGCAA CTCTGGCAGG AACTGATTTA GAGAATTGTG ATCTGTCTGG GTGTTAGCTC    240
GAG                                                                    243
```

(2) INFORMATION FOR SEQ ID NO:589:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 355 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:589:

```
GAATTCGGCC TTCATGGCCT AAATTATACT CCAAATGTTT TATCTAAAAT GCATTTTCTG    60
TCTTTTCCTT TTTACTCTTG TCCTCACTTT TAATGATCCA TCGGCTGACA GTGTCTTTAC    120
ATCCAAAATG CAAAGCAGAC AAATGGGCAT ATCAGGGAAG AACATGACAA AAAGCACCAG    180
CATCAGTGGA GACATGTGCT CACTGGAGAA GAATGATGGC AGCCAGTCTG ACCTGTCAGT    240
GGGCACCTTG GGCACCACTG GCAAAAAGCG GCGCTCTAGC CTTGGTGCCA AAATGGTAGC    300
TATCGTTGGT CTGTCACGGA AAAGTCGCAG TGCTTCTCAG CTCAGCGGAC TCGAG        355
```

(2) INFORMATION FOR SEQ ID NO:590:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 362 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:590:

```
GAATTCAAAT GCTTCAGGTA AATGTTGAAG CTCGGTGTAC CGCGGGACAA ATCCTGAGTC    60
ACCCCTGGGT GTCAGATGAT GCCTCCCAAG AGAATAACAT GCAAGCTGAG GTGACAGGTA    120
AACTAAAACA GCACTTTAAT AATGCGCTCC CCAAACAGAA CAGCACTACC ACCGGGGTCT    180
CCGTGTCAT GAACACGGCT CTAGATAAGG AGGGGCAGAT TTTCTGCAGC AAGCACTGTC    240
AAGACAGCGG CAGGCCTGGG ATGGAGCCCA TCTCTCCAGT TCCTCCCTCA GTGGAGGAGA    300
TCCCTGTGCC TGGGAAGCA GTCCCGGCC CCACCCCTCC GGAATCTCCC ACCCGCTCG    360
AG                                                                    362
```

(2) INFORMATION FOR SEQ ID NO:591:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 298 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:591:

```
GAATTCGGCC TTCATGGCCT ACTCAGTCTG CACAACCTTT TTGCTGTGTG TCGGAATATG    60
TATAACTGGC TACTGCAGAA TCCCAAAAAT GTCTGTGTTG TCCACTGCTT GGATGGACGG    120
GCGGCATCAT CAAATCTGGT TGGTGCTATG TTCATTTTCT GTAATCTCTA CTCTACTCCT    180
GGCCAGCCA TTCGATTGCT ATATGCAAAG CGACCAGGAA TTGGACTTTC ACCATCCCAT    240
AGGAGATACC TGGGCTATAT GTGTGACCTA CTGGCAGACA AGCCCTACCG CCCTCGAG    298
```

(2) INFORMATION FOR SEQ ID NO:592:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 289 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:592:

```
GAATTCGGCC TTCATGGCCT ACCGTAAGCA GATGAAGCTG CTGCTGCTGC TGCTGCTGCT    60
GAGCTGCGCC GCGTGCTCA CCTACGTGCA CCTGGGCCTG GTGCGCCAGG GACGCGCGCT    120
GCGCCAGCGC CTGGGCTACG GCGGAGATGG TGAGAAGCTG ACCAGTGAGA CCGACGGCCG    180
GGGGGTCCAC GCTGCGCCAT CCACACAGAG GGCTGAGGAC TCCAGTGAGA GCCGTGAAGA    240
GGAGACCAGC GCAGACATGC TCGGGCCAGA TCCCAGGGAT TACCTCGAG    298
```

(2) INFORMATION FOR SEQ ID NO:593:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 302 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:593:

```
GAGAGATGGT GACTGAGGCA GAAGCTAATA GGAAGATGA TAGGAAAGAA ATTTTACCCA    60
AGGAATTAGA TTAGCAAGA GAGCGAAGGA AAGCTGAGAG GCCAAAAACA TCTCTGAGGA    120
AAACTGACTC TGAGAGAGAA GAGGTGACAA GGGCAATGC ACTCAAGGAT GAAGATGCTT    180
TTAAAGAAGA GCAAAACTT AAAGCGGAAG AAGGGGAAAC AGAGACAGAA GTAAGAGCTG    240
AGGAAGAGAC AAAAGCTCCC CCAATGAAA TGGGATCTGA TGCTGAGAAC GAAACACTCG    300
AG    302
```

(2) INFORMATION FOR SEQ ID NO:594:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 261 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:594:

```

GAATTCGGCC TTCATGGCCT AGGATATTTA AACCTCTATT ATTTTAGACA AGACTGTCTA    60
GAACTTAAGT TTGATCTGTC AGCCAGTACT CCCATTAAAT TCAGTGTAGT TTCACTTGAT    120
AGAATCAGAT ATGTTATCGA AATGTTAGCA GCAGCTTCAT CCTCCTTCTG ATTAAAGTAA    180
GTAGAAATGG GATGTTTTGT TTAATAACAG CCATAGTGTG TGTTTAGACC ACAGCGGATG    240
TTGTAGACCA GGACCCTCGA G                                     261

```

(2) INFORMATION FOR SEQ ID NO:595:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 370 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:595:

```

GAATTCGGCC TTCATGGCCT AGGGGCTTTT GTCAAGATAG AAGGGTATCA ACGGTTTCTG    60
TACAGCACAG ATTATGACAG CGTCTTTCTT AAGACTTATC ATTTGGAGCA CTGGCTCAGG    120
AGTCGAAATC ACCAATGGCT CATCCATCAA TCAACCAGAA GTGAAGACGA AAGCTTCAAA    180
GAAGAGAATG TTTAAATTTC ATCAAATGAA ACATATTTT GAAATACTTG ATAAAATGAG    240
ATGCCTGAGA AAACGTTCTA CAGTGTCATT CTTGGGAGTT CTTGTCATTT TTCTCCTTTT    300
TATGAACTTG TACATTGAAG ATAGCTATGT TCTGGAAGGA GACAAACAAC TTATAAGGGA    360
AACTCTCGAG                                     370

```

(2) INFORMATION FOR SEQ ID NO:596:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 240 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:596:

```

GAATTCGGCC TTCATGGCCT ACTAACGACT CATCTTTGTT TTTAGTTTTT TTAATTAACA    60
ATCGTCTGTG TCACAATTTT TAATTTCCCT TCTCCCCCT TCTCCGCAA GCACTCAGGC    120
ATCGGACACG CTATGGTAA CAACTACAT TGCTGGTAG ATATCATCT TATTGTCTCT    180
TTTTTTGGGT TTGCGGTG TGCCCCCT TTTCTCTCC AACCCCCCCT ATTCTCGAG    240

```

(2) INFORMATION FOR SEQ ID NO:597:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 224 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:597:

```

GAATTCGGCT TCATGGCCTA GTGTATTGGT TGTGTGTGTT TTCCTTTTTG CATAAGAAAT    60
ATGTCCTATT AGTCCAGAGG CTCTTGCTTT ATCCGGATGA CGGAGGGTAC ACGGGGCGTC    120
CGCCTCAGTT CCCGCCGAAG GACGTATTCG CTGAACTGGG ACGAGTCTAC TCCTCCCCCA    180
CAGGAGCCCA CGATTTCAAA TCCTCTTTGC TGCAACCTCT CGAG                                     224

```


(2) INFORMATION FOR SEQ ID NO:598:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 272 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:598:

```

GAATTCGGCC TTCATGGCCT AGATATTTTA AAGGAGTGAT GACATCTTTT TCCTATCATG      60
TGAAGAGGGG AAAGAGAAAG GAAAGGGCCC ATATTATTGT GTTCCTGCTT GTGCCAGCTG      120
TTCTATATCT GTTGATCTCA TTAGTCCTC ATGACAGTTC TATGAGGAGG GCACTGTCAT      180
CATCACCATT GCACAGATGC AGAACTGTG GCTCACAGAG GATAAAGCTA GGTCCTCAC      240
ACAACCCCT GACTCCAGAG CCACCACTCG AG                                     272

```

(2) INFORMATION FOR SEQ ID NO:599:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 351 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:599:

```

GAATTCGGCC TTCATGGCCT AGTAAGGGAG AACTGAATG GTGATTCAGA GCATAGAGAT      60
TATGTTTTTT TATGCACAGG GCTTCATCAG AAAAAATGGAA GGAATTGTCA ATAACAATAA      120
AATGTTTCAGC TAGATCAACT CAGTATATAG TATGTATTAT ACAATTATTC AAAATAGTGT      180
TTAACAGTAC TGTAATAACA TGAATAAATG TTTTGTGATA TTAAGTGAAA AAGAGCTATA      240
TAAATTATC TAAGTTTATG GTATATGTAG ATTGTTGCAA AAATGTCTTC AATTCCTTAT      300
CCCTCCCTGT ATCCACACCT GTATCAGTTT TCTCGGGCA GCTGCCTCGA G                                     351

```

(2) INFORMATION FOR SEQ ID NO:600:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 107 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:600:

```

GAATTCGGCC TTCATGGCCT AGAATATTTT TATCATCCCA AAGCTAAAAC ATTAAAAAAT      60
TTAAAGTTTA TTCTAGAGA TTGATGCAAC TTGCATATCT AATCGAG                                     107

```

(2) INFORMATION FOR SEQ ID NO:601:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 277 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:601:

```

GGAAAATTAC TTAAACGTTG CACACAACGT TTCACAAAAT CTTTGTGAA AGAAGAAAAG      60
GAAATTCAGT GTGTGAGTCT CAGCAGGAGT TAAGCTAATG CAGCTTAACA TCATGCCGAC      120
AAAGAAGCGC TTATCTGCGG GCAGAGTGCC CCTGATTCTC TTCCTGTGCC AGATGATTAG      180
TGCACTGGAA GTACCTCTTG ATCTGGTACA GCCTCCAACC ATCACCCCGC TAAATCCCTT      240
AGAAGTCCCA CTCCTAAACA CATCCGTATT ACTCGAG                                277

```

(2) INFORMATION FOR SEQ ID NO:602:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 358 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:602:

```

GAATTCAAAT TAACATTTTA CCTTGAAATA GTTGGCTTCA GATTAATATC AACTTAGTTT      60
CAATAGCATA GGAAATTTGC TTCACTATAT TTCCATTTTC TCCCGTCCTT TTGTGCTATT      120
ATTACTATAC CAATTAGATC TCTACACAAT ATAGGCATAT CAACACATTT TGTAATTATT      180
TCCTTATCCA GTTGTCTTTT AATATAGATC TGTGAAGAAA AGTATTACAC AAATAGATCT      240
ATTCTGTTTT TTATAATTAT TTAATTACCT TTGGTGGTGC TGTTTATTTT TCATGCATTT      300
GAGTTACTGT CTAGTATTCA TTCATTTCTC TCTGAATCAC TCCCGGTAT TGCTCGAG      358

```

(2) INFORMATION FOR SEQ ID NO:603:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 232 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:603:

```

GAATTGGGCC TTCATGGCCT AGCCATCTTA TTTGAACTAT ATTTTTCCTT CAAAGAAGCA      60
ATAGGTCTCA ACATAGTGTA GGTAGCATCA GGTGACAGAA AGCCAATTTT ATTTTCAAAT      120
TTAAGTTAAT TATCTTCGTG ATCCTATTTA TCCACAATTT CTTTCAGAAA AGACTGAAAA      180
AACACATTAT ATTCAGGAGA TATAATGAAA TTATTGGAAG GCATCACTCG AG                                232

```

(2) INFORMATION FOR SEQ ID NO:604:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 276 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:604:

GAATTCGCCC	TTCATGGCCT	AAATATTTTC	CATCTTCCTC	TCCAGTAAAC	ATTCTTTTGT	60
CATCACAGTC	TGTCTCTGAC	ACCTTCGTTA	AAGAGGTCTT	AAAATGGAAA	TATGAAATGT	120
TTTGAACCTT	TGGTCAGTGT	GGGCCCCCTG	CAAGTCCTTG	TCAGTCCATC	TCAAGACCTG	180
TGCCTGTCTAG	ATTTACAAT	TATGGAGATT	ATTTTAATGT	TTTTTCCCT	TTGATGGTAT	240
TGAATACTTT	TGAAACAGTG	GCACAAGCGG	CTCGAG			276

(2) INFORMATION FOR SEQ ID NO:605:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 450 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:605:

GAATTCGGCC	AAAGAGGCCT	AAAAATATAA	TTTAAAAATA	CATTGCGTAT	TTTCTAAAAC	60
AATAAATTTA	TAGTGTTAAT	ATTCATAGGG	TCAATCAAAA	TGAAGCTTCT	CCTTTGGGCC	120
TGCATTGTAT	GTGTTGCTTT	TGCAAGGAAG	AGACGGTTCC	CCTTCATTGG	TGAGGATGAC	180
AATGACGATG	GTCAACCACT	TCATCCATCT	CTGAATATTC	CTTATGGCAT	ACGGAATTTA	240
CCACCTCCTC	TTTATTATCG	CCCAGTGAAT	ACAGTCCCCA	GTTACCCTGG	GAATACTTAC	300
ACTGACACAG	GGTTACCTTC	GTATCCCTGG	ATTCTAACTT	CTCCTGGATT	CCCCTATGTC	360
TATCACATCC	GTGTTTTCCT	CTTAGCTACT	CAGTTGAATG	TTCTCTCTCT	CCCTCCTAGG	420
GGTTTCCCGT	TTGTCCCTCC	TAATCTCGAG				450

(2) INFORMATION FOR SEQ ID NO:606:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 614 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:606:

GAATTCGGCC	AAAGAGGCCT	ATCAGGTGAT	TTAATAATAA	TTTAAACTA	CTATAGAAAC	60
TGCAGAGCAA	AGGAAGTGGC	TTAATGATCC	TGAAGGGATT	TCTTCTGATG	GTAGCTTTTG	120
TATTATCAAG	TAAGATTCTA	TTTTCAGTTG	TGTGTAAGCA	AGTTTTTTTT	TAGTGTAGGA	180
GAAATACTTT	TCCATTGTTT	AACTGCAAAA	CAAGATGTTA	AGGTATGCTT	CAAAAATTTT	240
GTAAATTGTT	TATTTTAAAC	TTATCTGTTT	GTAAATTGTA	ACTGATTAAAG	AATTGTGATA	300
GTTTCAGCTT	AATGTCTCTT	AGAGGGTGGG	CTTTTGTGTA	TGAGGGAGGG	GAAACTTTTT	360
TTTTTTCTAT	AGACTTTTTT	CAGATAACAT	CTTCTGAGTC	ATAACCAGCC	TGGCAGTATG	420
ATGGCCTAGA	TGCAGAGAAA	ACAGCTCCTT	GGTGAATTGA	TAAGTAAAGG	CAGAAAAGAT	480
TATATGTCAT	ACCTCCATTG	GGGAATAAGC	ATAACCCTGA	GATTCTTACT	ACTGATGAGA	540
ACATTATCTG	CATATGCCAA	AAAAATTTTA	AGCAATGAA	AGCTACCAAT	TTAAAGTTAC	600
GGAATCACCT	CGAG					614

(2) INFORMATION FOR SEQ ID NO:607:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 293 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:607:

GCGAAGACCA	TCAATGAAT	TGTCACAATA	CTCGAATAAT	GCAAGACACA	GAAAAGGATG	60
ATAACAATAA	TGACGAATAT	GACAATTACG	ATGAACTGGT	GGCCAAGTCA	TTGTTAAACC	120
TCGGCAAAAT	CGCTGAGGAT	GCAGCCTACC	GGGCCAGGAC	TGAGTCAGAA	ATGAACAGCA	180
ATACCTCCAA	TAGTCTGGAA	GACGATAGTG	ACAAAAACGA	AAACCTGGGT	CGGAAAAGTG	240
AGTTGAGTTT	AGACTTAGAC	AGTGATGTTG	TTAGAGAAAC	AGTGGGGCTC	GAG	293

(2) INFORMATION FOR SEQ ID NO:608:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 313 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:608:

GAATTCGGCC	TTCATGCTTA	CTCAGAAAGC	CACTGCCCCA	AACAAGCCAC	CTGCATTATC	60
AAACACAGAG	AAGAGGAATC	ATTCCGCCTT	TTGGGGACCA	GAGAGTCAAA	TCATTCTGT	120
GATGCCAGAT	AGTAGTTCCT	CAGGGAAGAA	CAGAAAAGAG	GAAAGTTATA	TATTTGAGTC	180
AAAGGGTGAT	GGAGGAGGAG	GGGAACACCC	AGCCCCAGAA	ACAGGTGCAG	TGCTACCCCT	240
GGCGCTGGGT	TTGGCTATCA	CTGCTCTGCT	GCTTCTCATG	GTTGCATGCC	GACTACGACT	300
GGTGATCCTC	GAG					313

(2) INFORMATION FOR SEQ ID NO:609:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 372 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:609:

GCCCATTCGG	GCCCCATCT	CACCCAAGAT	CCCCCAGAGT	CCAGGAGCTG	GACGGGGACA	60
CCCTCAGCCC	TCATAACAGA	TTCCAAGGAG	AGGGCACCCCT	CTGTCTCTTA	TCCTTGCCCC	120
TTGTGTCTGT	CTCACACACA	TCTGCTCCTC	AGCACGTCCG	TGTGGGGAGG	GGATTGCTCC	180
TTAAACCCCA	GGTGGCTGAC	CCTCCCCACC	CAGTCCAGGA	CATTTTAGGA	AAAAAAAAAT	240
GAAATGTGGG	GGGCTTCTCA	TCTCCCCAAG	ATCCTCTTCC	GTTCAGCCAG	ATGTTTCCTG	300
TATAAATGTT	TGGATCTGCC	TGTTATTTT	GGTGGGTGGT	CTTCTCTCCC	TCCCTACCA	360
CCGTCCTCG	AG					372

(2) INFORMATION FOR SEQ ID NO:610:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 119 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:610:

GGAGCTAAAT TTAAGAAATG CAACTAGCCA GGTGCTAAGA AGCTCAGTTA CACGTTTCTC 60
 AAAAGTTGGC TGTTAGTTCC ATGACTCAGA GTGCACTCAA ATCATTTTAA TTAAGTCGAG 119

(2) INFORMATION FOR SEQ ID NO:611:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 474 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:611:

GAATTCGGCC TTCATGGCCT AGGTCCTGTT TGCCTATTTG AGCTGCTATT AGTGTGAGAA 60
 GAAACTCAGA TGATAGTAGC AGAAACAGAA AGAGGAAGAG GCTACAAGAG ATGGTAGATG 120
 CTGAACTTAA GGCATTGAT AACCAATGGA TATAGAAAGA AAAGGAAATG AAAGGACAAA 180
 AATGGCTCTA AGTTTTCAAA CTTGACTGAT GAGGAAAATA TTCACATCAA GAATGGACTG 240
 AAGAAATAAG GAGGAGATGC TGGGTTAGGG TGAAGGAGA TGAGCCCCAT TTTACATTGG 300
 AAAGCTCTAT GGAACAACGG AAGTAGTAGT AGCTTTATAT TCCAGTATGC CAAATTCTCA 360
 GCTCCAAGAC TCCAGCACTG TGTGCTCTAC AGTATGTTT GTGATGTGCC TGAGTTTGG 420
 TTTCTTTATT TCAATTAGGG ACTCTTCATA CCAGGGTCAG GGGTTATGCT CGAG 474

(2) INFORMATION FOR SEQ ID NO:612:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 283 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:612:

GAATTCGGCC TTCATGGCCT AGTTCCTGTG CTCTTGAAAG AACAAATTGA TGCTTGTAAG 60
 GCTGTTTTGA TTATTTTATG GCGCATGATA ATGGAGCTTA CAATGAATAA AAAGACATGG 120
 GAACAGATGT TGCAAAATACT ACTCAGGATA ACAGAAAGCTG TCATGCAGAA GCCAAAGGAT 180
 AAACAAATAA AGGACTTGTT TGCCAGAGC TTGGCAGGGT TACTATTTAG GACGCTCATG 240
 GTAGCTTGGA TCCGAGCAAA CCTCTGTGTG TACATTTCTC GAG 283

(2) INFORMATION FOR SEQ ID NO:613:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 280 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:613:

GAATTCGGCA CGAGGGGCCG CCGTTTTTTT TTTTTTTTTT TTTTCAGGTG CACATAAAGT 60
 TAGTTTATTA ATGACTATAT TTTGAAGCCA GCCATTTTGT CCAATATTTA AATAACAAGC 120
 TGTTTAATAT TAAAGCAGAA AGTACTGCCA CATTGTGACA GAAGTACAGC TTTATCCATA 180
 AACCCCTCAC ACAATTATAC ATTAAATGCT ATTTTATTTT AAGCAAGGCA CCCCTACTTG 240
 TTCTAAATA TGGGATGTAC TACACCATGT ATTACTCGAG 280

(2) INFORMATION FOR SEQ ID NO:614:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 406 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:614:

```

GAATTCGGCC AAAGAGGCCG GAATTTGGCC CTCGAAACCA AGAATTCGGC ACGAGGGAAT      60
GAAATTAGCT AACAGCCTTC AGCTACAGAA ACTTTGGGAT CCAGACAGCA TTTGAGCTGA      120
CGCCACGCC TTCTCAGGCA GCGCCACAG TGAAGGAGGA GGATCTAGAA GGGCCTGGCC      180
ATTTTTCCTC AATGTAGGT CCCTCTGATG GGAATCTTT GTCTGGAGAC CCGAGCTGAG      240
ACTTTGTCTC ATTGGCATCT CTGTCCCTGC TCAATGCTGC TTTCCATGCT CCCTTTTCTA      300
TCACAGACAT CATAGCCTGA AATCTTTCCA CACCCAATAC TGCTTCCTAT ACCCCTTAGC      360
CTTTCCTGAT CTCATTGAGG TTACCATTT TCCTCCGTCG CTCGAG                      406

```

(2) INFORMATION FOR SEQ ID NO:615:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 369 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:615:

```

GAATTCGGCC AAAGAGGCCG GAATTTGGCC CTCGAAGCCA AGAATTCGGC ACGAGGCTTT      60
TTTAGGTAAT TCTTTGTACT CCTGCTGTCT ACCTCTCCTC ACACCCCAAGC ACCCCCATT      120
TTTTCAAACC TTGGTATCTG TTGGGTGAAC AGTATAATCT TTTCATCTGC TTTTAGAATG      180
TGGGATATTT CCAGTACCTA CTTTTTTTTT TTTTTTTTGC TGAATCCAAA GATATATAAA      240
TAAAATATAT ATATTTTATA AAGATCAGAA TGATATAAAG GAGATACATG TTTCTTCCTT      300
TAAAAAATAA ACGGAAGTTA CATTGTTAAT GTTCATATTA TGATGCGAAT TCTCTGGTTC      360
CTCCTCGAG                                     369

```

(2) INFORMATION FOR SEQ ID NO:616:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 461 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:616:

```

GAATTCGGCC TTCATGGCCT AGGATGTCTG AGGTCTTAAC CTGCCAGTC CTGAATTCCT      60
GGGACTTCAA CGACTCTCTC TCTGCCAAAT GATGTGAGTC TTTAGGTAGA GTTATAGCGC      120
AAAGGGCTAC TATCAATGTT ATTAAGCATA AATTATGACT AGAGCCACAG AATGATTTC      180
TCATTAATCC AAAAAAAAAA AAAAAGCAAA CCACTCTTTT ACTTTATGAT GAGCACATAA      240
ACAGTTTTTT TTTCTTTTAA TTTATCTACT TTTACTTACT TAAATTTTAG AGATGGGGTC      300
TTGCTATGTT GCCCAGACTA GACTCAAACCT CCTGGGCTCA AGTGATCCTC TAGCCTCAGC      360
CTCCCAAGTA GCTGGGACTA CAGGAAGGAG CTACTGCACC TGACTCAATT TTTTTTTTTT      420

```

CTGAGATGGA GTCTCACTCT GTGACCCAGG CTTGTCTCGA G

461

(2) INFORMATION FOR SEQ ID NO:617:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 391 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:617:

GAATTCGGCC TTCATGGCCT ACATCAATAA CAGCCAACT GAGACACATA ATGTTTTCTA	60
CGTCCAAGAG GCTAAATGTG AGAATCCAGA ATTTGAGAGA AATGTGGAGA ATACATCTTG	120
TTTCATGGTC CCTGGTGTTC TTCCTGATAC TTTGAACACA GTCAGAATAA GAGTCAAAAC	180
AAATAAGTTA TGCTATGAGG ATGACAACT CTGGAGTAAT TGGAGCCAAG AAATGAGTAT	240
AGGTAAGAAG CGCAATTCCA CACTCTACAT AACCATGTTA CTCATTGTTC CAGTCATCGT	300
CGCAGGTGCA ATCATAGTAC TCCTGCTTTA CCTAAAAAGG CTCAAGATTA TTATATTCCC	360
TCCAATTCCT GATCCTGGCA AGAATCTCGA G	391

(2) INFORMATION FOR SEQ ID NO:618:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 306 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:618:

GAATTCGGCC TTCATGGCCT ACGTGAAGAC AAGATGAAGT TCACAATTGT CTTTGCTGGA	60
CTTCTTGAG TCTTTCTAGC TCCTGCCCTA GCTAACTATA ATATCAACGT CAATGATGAC	120
AACAACAATG CTGGAAGTGG GCAGCACTCA GTGAGTGTC ACAAATGAACA CAATGTGGCC	180
AATGTTGACA ATAACAACGG ATGGGACTCC TGGAAATCCA TCTGGGATTA TGGAAATGGC	240
TTTGCTGCAA CCAGACTCTT TCAAAAGAAG ACATGCATTG TGCACAAAAT GAGCAAGGAA	300
CTCGAG	306

(2) INFORMATION FOR SEQ ID NO:619:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 370 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:619:

GAATTCAAGG CCACGCGGA GCTGTACCTT GGAAGGAGGA GCCAAAAATT ATGCTGAGAG	60
TGATCACAGT GAAGACGAGG ACAATGACAA CAATAGCCCC ACCGCAGAGG AGTCCACGAA	120
GAAGAATAAG AAGAAACCAC CGAAAAAAA GTCTCGTTAT GAAANGACAG ATACCGGTGA	180
GATAACATCC TACATCACTG AAGATGATGT GGTCTACAGA CCAGGAGACT GTGTGTATAT	240
CGAGAGTCGG AGGCCAAACA CACCGTATTT CATCTGTAGC ATTCAAGACT TCAAAGTGT	300
AAGCGTTTTT AATGTGCTGT TCACTCTGCT CTGTATTCTC TCTTTTCCA GTTCCATTGG	360

CGCTCTCGAG

370

(2) INFORMATION FOR SEQ ID NO:620:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 183 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:620:

```

GAATTCGGCC TTCATGGCCT AAAAACCTTA CAACTAAAGC AAATAGACTT TTCAAGAATT    60
TAAATAGGAT TCCTTCCCTT TAATCAATTA ATTATCCACT TTGTCATGGT GTC AACCTGT    120
AATTTCATGG TTTTGTGTGT GTGTGTGTGT GTGACAGAAA TTTACAAACA ATGTGATCTC    180
GAG                                                                    183

```

(2) INFORMATION FOR SEQ ID NO:621:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 565 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:621:

```

GAATTCGGCC TTCATGGCCT ACAACTAATT TGATCATATT AACAGAGAGT TGGTTTTTAA    60
ACCAAGCAGT ATAAATATAA ATACAGCCTT GGGTAGATCA TAGTCAAAC TCCCAAATGC    120
AACCTCAGCT TCAAAGATTG TAAAGTCTTT TCTTCCCCT TTTCTCCTTT CCTTTTTTTT    180
TCCTCCAAAT ATTTATTTAC TACCTACCAT GTGCCAGGCA CTGTGATGGG CTATGAGGAT    240
GCAGTGGGGG ATAGGACAGA TGCCATCCCT GCCCTGAGGA GACTTGCAGT TTATTGGAAA    300
AGATGGACAT CGTAAATAT ACAATCATAC AAATAAAAAT TACATAAATA ATTCACTACT    360
TCAACTTGTG GGAGGTACAG CAGTTTATAA TAATAACATC CCTCCCACCT TCTTGAGAGA    420
GTCATTGGTT GCCCCTTC TCTTCATGAA TGAGAGGACA TGATTAAACC TATCATTTC    480
GGTAGGAGTT TACTGTGGGA TGGATATCAA TCTTCTATTA ATATGTTTGT GCTCATGCTC    540
TCCATTTTGC AATGGACGTC TCGAG                                                                    565

```

(2) INFORMATION FOR SEQ ID NO:622:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 294 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:622:

```

GAATTCGGCC TTCATGGCCT AAAATGAAAG CTATGTCTTA GAACCAATGA AAAGTGCAAC    60
CAACAGATAC AAACCTCTCC CAGCGAAGAA GCTGAAAAGC GTCGGGGGAT CATGTGGATC    120
ACATCACAAC ACACCAAACC TCGCTGCAAA GAATGTGTTT CCACCACCCT CTCAGACATG    180
GGCAAGAAGG CATAAAGAG AGACCCCTCA GGCAACTAAG TATGTGGAGC TGGTGATCGT    240
GGCAGACAAC CGAGAGTTTC AGAGGCAAGG AAAAGATCTG GAAAAAGTCT CGAG        294

```


(2) INFORMATION FOR SEQ ID NO:623:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 492 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:623:

```

GAATTCGGCC TTCATGGCCT AGCTTCTGGT AATGGCGGAC TAGATGATTT AGAGCAACCC      60
ACCCATTGAA AAGAACTACA AAACGTCAGA TCTCTAAAAG GCTACAAAAT TAATACAATT      120
GTGAGGAATT GCTAGGTTAT ACTACAAGAG AACAGAAGCA TCCAGAGAGG TAAGCCTAGG      180
ACTTAAAACT ATATTTTAT TGAAGGTATC TGTGGTTGAG TAATAAGCCT GTGCTAAACT      240
GCGTGGAAT TATGGCACAT TCAAGGCACT ATAGTAACAG AAGTCAGAGC CCAAGGCCCA      300
TCAAAAGGGG TGGAGTGTTC CTGACAAAC CATCACCCAT AGTATGCTGG GAACCGCAAA      360
TGTTTATACC TTCAGGTAA TTGTAATCAA AAAATATACT AGCCCTTACA AAGTCTTGTA      420
GCTTGGCTTT GCATCATCTG GGTGGACTAG TGAAGTGTA GTTCTGAACA AATATTATGG      480
AGGCAACTCG AG                                     492

```

(2) INFORMATION FOR SEQ ID NO:624:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 496 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:624:

```

GAATTCGGCC TTCATGGCCT ACTTCCCTGA GCTGGGGTTT CCCTGCTTGT CCAGTGTGTA      60
GCTGTCTCTG GTGTTACCGA GGCTGTGCCT AGAGAGTGGA GATTTTGTAT GAAAGGTGTG      120
CTCGCTCTCT GCGTTCCTATC TTCTCTCTCC TCCTTGTTC TGCAAACCCAC AAGATAAAGG      180
TAGTGGTGTG TCTCGACCCC ATCAGCCTCT CACCCACTCC CAGACACACA CAAGTCCTCA      240
AAAGTTTCAG CTCGTTGTGT GAGATGTGCA GGTTTTTTCT AGGGGGTAGG GGGAGACTAA      300
AATCGAATAT AACTTAAAT GAAAGTATAC TTTTATAAT TTTTCTTTT AAAACTTGGT      360
GAAATTATTT CAGATACATA TTTTAGTGT C AAGGCAGATT AGTTATTTAG CCACCAAAAA      420
AAAGTATTGT GTACAATTG GGGCCTCAA TTTGACTCTG CCTCAAAAAA AAGAAATATA      480
TCCTATGCAT CTCGAG                                     496

```

(2) INFORMATION FOR SEQ ID NO:625:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 412 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:625:

```

GAATTCGGCC TTCATGGCCT ACAAATGTA TTATGACAAG ATTGTCTACT ATGAAGCAGG      60
GATTATTCTA TGCTGTGTCC TGGGGCTGCT GTTTATTATT CTGATGCCTC TGGTGGGGTA      120
TTTCTTTTGT ATGTGTCGTT GCTGTAACAA ATGTGGTGGA GAAATGCACC AGCGACAGAA      180

```

GGAAAATGGG CCCTTCCTGA GGAAATGCTT TGCAATCTCC CTGTTGGTGA TTTGTATAAT	240
AATAAGCATT GGCATCTTCT ATGGTTTTGT GGCAAATCAC CAGGTAAGAA CCCGGATCAA	300
AAGGAGTCGG AAAGTGGCAG ATAGCAATTT CAAGGACTTG CGAACTCTCT TGAATGAAAC	360
TCCAGAGCAA ATCAAATATA TATTGGCCCA GTACAACACT ACCAAGCTCG AG	412

(2) INFORMATION FOR SEQ ID NO:626:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 372 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:626:

GAATTGGGCC TTCATGGCCT AGTTAGGTGG CTTTGTAGTGT ATTGACAAAG TTGTGAACCC	60
ATTATCACAA TCTAATTTTA GAACATTTT ATCAGCCTCC TTGCCCCCTA AAAAAACCCA	120
GTACTTTTTA CCAATCCAGT CATTTAAAC TTACTACATA TTTAATAGAT GGATAGATAG	180
ACAGGAGGAT GGACAGACTG AAGGAAGAAT GGATGATTAT GTATAAATAA ATGAAAAAAC	240
AAAACTATC CCCAAATCAT AAGGGTATAC GCAATGCTTT CCTGTGGCAA AAGATTGGGA	300
ACATGTACAG CAGATTTTTT TTCAAATGTT CATAATTCTA AATTCCTCAA ATGGTCTACA	360
CAACTTCTCG AG	372

(2) INFORMATION FOR SEQ ID NO:627:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 575 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:627:

GAATTGGGCC TTCATGGCCT AGGAGAAAGG AAGGGAAGCA TTACTGGGTT ACTATGCACT	60
TGCGACTGAT TTCTTGGCTT TTTATCATT TGAACCTTAT GGAATACATC GGCAGCCAAA	120
ACGCTCCCG GGAAGGCGC CAGCGAAGAA TGCATCTTAA CGTTAGTCAA GGCTGCCAAG	180
GAGGCTGTGC AACATGCTCA GATTACAATG GATGTTTGTC ATGTAAGCCC AGACTATTTT	240
TTGCTCTGGA AAGAATTGGC ATGAAGCAGA TTGGAGTATG TCTCTCTTCA TGTCCAAGTG	300
GATATTATGG AACTCGATAT CCAGATATAA ATAAGTGAC AAAATGCAAA GCTGACTGTG	360
ATACCTGTTT CAACAAAAAT TTCTGCACAA AATGTAAAAG TGGATTTTAC TTACACCTTG	420
GAAAGTGCCT TGACAATTGC CCAGAAGGGT TGAAGCCAA CAACCATACT ATGGAGTGTG	480
TCAGTATTGT GCACTGTGAG GTCAGTGAAT GGAATCCTTG GAGTCCATGC ACCAAGAAGG	540
GAAAAACATG TGGCTTCAAA AGAGGGGATC TCGAG	575

(2) INFORMATION FOR SEQ ID NO:628:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 457 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:628:

GAATTCGGCC	TTCATGGCCT	AACAGGGTCT	TGCTCTGTCA	CCCGGGATGG	AGTGTAGTGG	60
CGCAATCACA	GCTCACTGCA	GACTCAGCCT	CCCAGGATCA	AGCAATTCTC	CCACCTCAGC	120
CTCCCAAGTA	GCTGGGACCA	CAGGTGCACA	CCATCATGCC	CAGCTAATTT	TTGTATTTTT	180
TTGTAAGAC	AGGTTTCACT	GTGTTACCCA	GGCTGATCTC	GAACTCCCGT	ACTCAAGCAA	240
CTCCCCACCT	CAGCCTCCCA	AAGTGCTGGG	ATTACAGACG	TGAGCCACAG	CGCCGGGCCC	300
CAAAATCTAT	TTTAAATGTA	AAGAAACCCA	AAAGTAACAG	TTTTGTAAAA	GAAAATTCAC	360
GTACTGTTT	GTAGTAAATT	CTAAACACTG	TGTATCTTTG	TGTCTAGTTA	AATCCTAGGC	420
TTACAGCTAA	AATTCAATGA	GAAGGCAAGT	ACTCGAG			457

(2) INFORMATION FOR SEQ ID NO:629:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 319 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:629:

GAATTCGGCC	TTCATGGCCT	AGAAAGCTAT	CATTTATTGA	GAGTTAATTG	TATATTAAGT	60
ACCATGCTAA	GTGCTTTGTA	TGTATTATTT	ATCTTTATAA	AAATCCTATG	AAATGAATAC	120
TGTTATTTTC	CCCCATTATA	CAGATGAAGA	TAGAGAAAGG	AAGAAAAGGG	AGGGAAAGAG	180
GAATACCATT	TCACTGAGCA	ATTTTACTGA	AATATTTTAT	GGAGCATTTG	TGGGTTTGT	240
TTGTTTGCTT	GTTTTGTTTT	TTTGTTTGTT	TTTTTTTTTG	AGACAGAGTC	TCACCTTGTC	300
GCCCAGGCTG	GATCTCGAG					319

(2) INFORMATION FOR SEQ ID NO:630:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 557 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:630:

ACGGTGAAAC	CCTGTCTGTA	CTAAAAATAC	AAAAAATTAG	CGGGGCATGG	TGGTGGGCAA	60
CTGTAGTCCC	AGCTACTCGG	GAGGCTGAGG	CAGGAGAATG	GCATGAACCC	AGGAGGCGGA	120
GCTTGCACTG	AGCCGAGATC	ACGTCACTAC	ACTCCAGCCT	GGGCGACAGA	GCGAGACTCC	180
GTCTCAAAAA	AAGAAAAAAC	CAAGACAAAA	CCAAAAATAA	CTTTGTCTGT	TAAGTACAAT	240
ATCTGTGTTT	CTCAGGGACA	GTTTCTATTG	ACCATGTGTT	TTCTTGTCGA	TAGACTATCC	300
TTTCCTTTTT	TGTACATCT	TGTAATTTTT	GTTTTATTAA	AACTGGAATT	TTAAAAATAA	360
TGCAGTGTGG	CAACTCTACT	GCTTGATTTG	GCTCAAAGGT	ATATTATTTA	TTTTTTAATA	420
TAACAAACCA	ATATTTGGGT	TCTCTATTCT	ATAGTTTTAG	CATTTTGAAT	GCAACAACTG	480
TCTTATTCAC	CATTTAATTC	TCAGTACTAC	CGTTTCTAGT	ACACAATATG	CACTTAATGA	540
ATATGAGGGT	CCTCGAG					557

(2) INFORMATION FOR SEQ ID NO:631:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 462 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:631:

```

GAATTCGGCC TTCATGGCCT AGACCGTGCC AGGTATTGAG AGCGACCCTC ACATTCCTAC      60
AGTGCTCTGT GTGGCATCTT AATGAAACTT TATTCTCTCC CCTTAAATGA GAAAGAATAG      120
CTAGTTGTCA TCCTTTCTGA ACCGATTTTG TCTTTCAAAG GTAGTAGTGT ACCAGGCCTG      180
CTATTTTGCA AAACGGTCTC CACCAAATC GAATTACCTG CCTCGCGGGG CAGGCGTGTT      240
GACCAGGTGG ACTCTAGAAG TAGGTGGTTT GCTTGGTTTC TTTTCTTTT AAGGTTTCCC      300
TTTCTTCTTC TTCTTTTCTG TGTTTTTTTT TTTTTTTTTT TTTTTCAT ATAGAAACTG      360
TCCCTAAGAG AGGAAACCTT TCTGGCCATG TTATCCAGG AATCTTTTGT CCCCTAAGTT      420
TGACCTTGTT CTTTCGTTCA CCCTTTACTC TTGCATCTCG AG                          462

```

(2) INFORMATION FOR SEQ ID NO:632:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 347 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:632:

```

GAATTCGGCC TTCATGGCCT ACATAAAATC AGTTGACTAT TGTGCAACAT AGAATTATTG      60
TTTGTTGAA ATTACGCTG AAGGACCTTG CCTACATTCA AGGGTCTATT TTTATTTTTC      120
CAGGTATTCT TTCACATTAG TGACATTATA GTCTAGTACA ACTGCTTGAT AATTGGGAGA      180
AACTAACATT AATTTTAGAT AGTGATTGAT AAAATTTGGC CTGCCAAATG CATTTTAAAA      240
ATAATTCTAG GATTTATCTA TGCTCATTTT TAGTATACCT CATGATATAT AAGACATCTT      300
TCTTTTGTC TATCAGTTCT TCAGATACTA AGACAGAGGT CCTCGAG                          347

```

(2) INFORMATION FOR SEQ ID NO:633:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 455 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:633:

```

GAATTCGGCC TTCATGGCCT AGGTGGTGCA ATAATTATAA ATGTTGCCAG TCAATGCCAA      60
CCAGTGTCTG ATTGGCTTCC TGTGCATGTC CAATTTCCTC TGTGACACTG TGTGGTGCC      120
AGAGCTTCTG AATCTTCTTG AATCGCTCTT TGCATAAATG TAAAGGATTT CCCCGTCTGA      180
GTCCCTGGTC GGTCTCCCA TAATCATCAA GGTAAGGAGG AGAATAAAAA CAGCCTTTGG      240
TTTGGCCAGC TAAAAATAGC ACCTGACATT CCCGTACTCT CAGGAAGATG CCCACTCCAG      300
AGCCACAGGA GTAGGTGTGA GCTGTGCAGG CTCCTACATC CTCCCCTTCC AGTTCAGTCT      360
GGCAGCAGTA ACTCTGGGAG CACAGCAGAG ATCCGCACAC AAGGCACAGA GTTGGGGCTC      420
TGCTCTTATC ACCACCTGAT TTCGGGCACC TCGAG                          455

```

(2) INFORMATION FOR SEQ ID NO:634:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 484 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:634:

```

GCATGAAGGC CGGCCTTCAT GGCCTACAGG CTATGTACTG TATGATTCCA AATATGACAT      60
TCTGGAAAAG GCAAAACCAG GGACACAGTG AAAAGATCAG GGGTTGAGAG GGGAAAAAAG      120
GAGGGATGAG TAATCAGAAC ATACAAGATT TTTTAAAGGC AGTGGAAACCG CTCTGTATAA      180
TACCATAATA GTGGATACGT GTCATTATGC ATTCATCCAA ACTCCTAGAA TGTACAGCAC      240
AAATAGTGAA CTGTAATGTA AATGCAGTGT GTAGGTGTTT ATACAAAAAA ACAGATGGAA      300
AGATTTTGTA CATAGCTCTA TGTGAAAATG TATTTATTTA TTAAGAGCAA AAATATGCTT      360
ATTTCAAATT TCCACGTACG ACTTTTTCAA AAAGACACGA TCCACTGAAA TAACCTCCCA      420
AAAGAATTTC TATAATCTAT AGCAGGTGTA CATGTTGTTA ATCAAGTGCT TAATGTTACT      480
CGAG

```

(2) INFORMATION FOR SEQ ID NO:635:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 487 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:635:

```

GAATTGGGCC TTCATGGCCT ACCCAACCAG AGGACAGACG TTGAAAGATA CCACGTCCAG      60
TTCTTCAGCA GACTCAACTA TCATGGACAT TCAGGTCCCG ACACGAGCCC CAGATGCAGT      120
CTACACAGAA CTCCAGCCCA CCTCTCCAAC CCCAACCTGG CCTGCTGATG AAACACCACA      180
ACCCAGACC CAGACCCAGC AACTGGAAGG AACGGATGGG CCTCTAGTGA CAGATCCAGA      240
GACACACAAG AGCACCAAAG CAGCTCATCC CACTGATGAC ACCACGACGC TCTCTGAGAG      300
ACCATCCCCA AGCACAGACG TCCAGACAGA CCCCAGACC CTCAAGCCAT CTGGTTTTC      360
TGAGGATGAC CCCTTCTTCT ATGATGAACA CACCCTCCGG AAACGGGGGC TGTGGTCCG      420
AGCTGTGCTG TTCATCACAG GCATCATCAT CCTCACCAGT GGCAAGTGCA GGCAGCAGTC      480
TCTCGAG

```

(2) INFORMATION FOR SEQ ID NO:636:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 331 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:636:

```

GAATTGGGCC TTCATGGCCT AATTTTATTT AAATTTTAT ATTTATATAT TTTATTTAAA      60
ATTTTCATGA AATGGCCAAG CAGGTTTAA TATAAAATGG AAACAGGGTT TATCTCAGAA      120
ATTTGGTGGC TAAATTCCTT GTATCCCGTC TTATCTAGGG ATGTTGTTTG TTTCAAGGTT      180
CTACCTTGAG AGGAGCCTGT CATTTCTTT TTTGTGTGCT GCTTGCCTA GTTGACATCT      240
TGGCTTTATG TGCTCCTGTT GAATGCATTG GGAAATTTTC TTCTTCTTT CTATGTCCTG      300
AAATAGCTTA TATAAGAGGG AAATCTCGA G

```

(2) INFORMATION FOR SEQ ID NO:637:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 625 base pairs

(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:637:

```
GAATTCGGCC TTCATGGCCT ACAAAAATAC TTTCAATTGT TTTGCTATTA CTAGTTTCTC      60
ATTTTTTATT GCACTTGCAA TCATTTTAGG AATATCCTCA AAATATGCTC CAGATGAAAA      120
TTGCCCAGAT CAAAATCCTC GTCTCAGGAA TTGGGATCCA GGACAAGATT CTGCAAAGCA      180
AGTTGTTATC AAGGAGGGGG ATATGCTCCG TCTGACCTCA GACGCCACCG TGCATTCTAT      240
AGTCATTGAG GATGGAGGAC TGCTTGATTT TGGGGACAAT AAAGATGGAT CCAGAAATAT      300
TACTTTGAGG ACTCATTACA TCCTGATCCA GGATGGTGGG GCGCTTCATA TTGGAGCAGA      360
AAAATGCCGC TATAAATCCA AAGCGACAAT TACCTTGATG GGCAAGTCAG ATGAAGGTGA      420
AAGTATGCCA ACATTTGGCA AAAAGTTTAT TGGTGTGGAA GCTGGCGGGA CACTGGAGTT      480
ACATGGGGCA CGGAAGGCAT CGTGGACGTT GTTGCAAGG ACCCTGAATT CCTCAGGCTT      540
GCCGTTTGGG TCCTATACCT TTGAAAAGGA CTTTCCCGG GGCCTCAATG TGAGGGTCAT      600
TGACCAAGAC ACGGACGCTC TCGAG                                     625
```

(2) INFORMATION FOR SEQ ID NO:638:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 506 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:638:

```
GAATTCGGCC TTCATGGCCT AGAGAACTTT TTGAGGGCTT TTTTITTTCC CCTTTTAAGC      60
TATTTTGATG GTAGACTTAA TTTTCTAAT TTTGCCACTT CTGGCAATCT GAAATCATTG      120
AAAAGGACAC AATTCAAATT TATGTTAAAG GTCATAAATT TTGCCCAGGA CTCAATATTT      180
TCTCATTTTT CCAAAAATAA AATCTTATTT ATGCATTATA GCGACTTGGT TTTCACTTTA      240
TCTTGAATTA TAGCTTTTAA GAGGCAGAAA GAATCCTTTT TATAAGGACA GTCTCAAGTG      300
TACACACAGA TTAAATATTA CAAATATAGG TTGCAAATAA AACTTTCAAA ATGTGGGATT      360
ATAGGAAGCA AAAGAGAACG AACCAAAGCA TCAACAAATT TACCTTTTTC TTTTITTTAA      420
AGATTTTCTT TATTTCTTAA GCTGCTTTTG CATTAGCATT AAATAACATT CTTATTGGAG      480
TGGTATGTGC ATGGCCCAAG CTCGAG                                     506
```

(2) INFORMATION FOR SEQ ID NO:639:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 388 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:639:

```
GAATTCGGCC TTCATGGCCT ACTCCAGCTT TATTATCTCA GCTACCATCA AACTATATTA      60
CATCAAATTA TCATCATTAC TCTCCTGCAC AGTAACTTTC TTTCTGCTCC ACTAAGAAGC      120
TTACTCCCAT CTGTTTATT CTCTATATCG TAGCTGGACT AATCTTTTCA AAGTGCAAAG      180
CCAATCACAA TACCACCTGC TTAAAATCCA TCAGTGGCTA ACTTTTCATT CTAGGACGAA      240
AAGAAAATTC TATAACATGA CTTCAAAGGC TCTGCATGTC CTTCTATTTT TCTTGTCTCT      300
```

TCTAGTCTTT TCTTTGATGG TCTCCACTCC AGCCCTACTG GCTTCTTTCT GGAATCAATG 360
 TCACCCACAA CCCGTCACGC CACTCGAG 388

(2) INFORMATION FOR SEQ ID NO:640:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 385 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:640:

GAATTCGGCC TTCATGGCCT ACTCCGCTCT GGCCCAAGAG GAGGCCAAGA AGGACGAGCC 60
 CAAGAGCGGC GAGGAGGCGC TCATCATCCC CCCGACGCC GTCGCGGTGG ACTGCAAGGA 120
 CCCAGATGAT GTGGTACCAG TTGGCCAAAG AAGAGCCTGG TGTGGTGCA TGTGCTTTGG 180
 ACTAGCATTT ATGCTTGCA GGTATTCTCT AGGAGGAGCA TACTTGTACA AATATTTTGC 240
 ACTTCAACCA GATGACGTGT ACTACTGTGG AATAAAGTAC ATCAAAGATG ATGTCATCTT 300
 AAATGAGCCC TCTGCAGATG CCCAGCTGC TCTTACCAG ACAATTGAAG AAAATATTAA 360
 AATCTTTGAA GAAGAAGAGC TCGAG 385

(2) INFORMATION FOR SEQ ID NO:641:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 392 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:641:

GAATTCGGCC TTCATGGCCT AGCAAGGAGA ACTATTGTCT TATGATCAGG TTTGCCATCT 60
 TTCTGTCTCT TATCATGTTG GTGGAGGTGG CCGCAGCCAT TGCTGGCTAT GTGTTTAGAG 120
 ATAAGGTGAT GTCAGAGTTT AATAACAAC TCCGGCAGCA GATGGAGAAT TACCCGAAAA 180
 ACAACCACAC TGCTTCGATC CTGGACAGGA TGCAGGCAGA TTTTAAGTGC TGTGGGGCTG 240
 CTAATACAC AGATTGGGAG AAAATCCCTT CCATGTCGAA GAACCGAGTC CCCGACTCCT 300
 GCTGCATTAA TGTTACTGTG GGCTGTGGGA TTAATTCAA CGAGAAGGCG ATCCATAAGG 360
 AGGGCTGTGT GGAGAAGATT GGGGGGCTCG AG 392

(2) INFORMATION FOR SEQ ID NO:642:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 132 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:642:

GAGTTGAAGT GGCCAAAAA TTATAACACT CTCCTACTTT CATATCTTGA TTTTAATTTT 60
 TTCCCTTACT TGTATTTTAT TTCTGAGTGG CTAATGGATC TTAGTCTAAG AACTGGAGGT 120
 GGAGAACTCG AG 132

(2) INFORMATION FOR SEQ ID NO:643:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 256 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:643:

```
GCACAAAGAC GCATTTCATC TGAGTTTCCC TGAAAGCTAG AATAAGTTTG CTGGTCTCAG      60
CTGGGATCCT GTCTTCTATA GCTTTGTATC AAGCAAATC AGCATTGTGT CTTGAATGCA      120
TGTCATGTGC AGCCTGCGTT TATGTGCGAC TGAGCACTTG GGTGGGGACA TCTTAAGGCT      180
GTTTATATTT CTTTTTCATG TGTGTGTGTT GTTGTGTGTT TTGTTGTTTT GGAGAGAGTC      240
TCGCCCAAAG CTCGAG
```

(2) INFORMATION FOR SEQ ID NO:644:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 447 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:644:

```
GTGCTCGCAG CCNTGGTGGC CTGGCGCTCG GCGTNCCTTG TCTGCCTCGC TTTCTCCTTG      60
GCCACCTCGG TCCAGCGAGG ATCTGGGGAC TTTGATGATT TTAACCTGGA GGATGCAGTG      120
AAAGAACTT CCTCAGTAAA GCAGCCATGG GACCACACCA CCACCACCAC AACCAATAGG      180
CCAGGAACCA CCAGAGCTCC GGCAAAACCT CCAGGTAGTG GATTGGACTT GGCTGATGCT      240
TTGGATGATC AAGATGATGG CCGCAGGAAA CCGGGTATAG GAGGAAGAGA GAGATGGAAC      300
CATGTAACCA CCACGACCAA GAGGCCAGTA ACCACCAGAG CTCCAGCAAA TACTTTAGGA      360
AATGATTTTG ACTTGGCTGA TGCCCTGGAT GATCGAAATG ATCGAGATGA TGGCCCGCAG      420
AAACCAATTG CTGGAGGATG GCTCGAG
```

(2) INFORMATION FOR SEQ ID NO:645:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 285 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:645:

```
GCTCAGCAAC ATTTTAGGAA CAACATTGGT GAGTATATGA GAATAGCCGT GACCTCCATA      60
TTTCATCAGC CGGGTTTTCG TATGTATGTC ATGTGCTACC AGAATTCGAT CTTACAGGCC      120
CTCTTCCACC AGGAGACGCA CCTGTGAAA AATGTTAACT CATTAGATGT CATTGTCTT      180
TCATTTTCGC TTTTCAGGAT GCTTCAACT TTTTACTCAT TAACCTATTG TGCTTGTCGT      240
AAAGATACTG ACTTCTACTG TGGCGTGTGT ACTGAGAGAC TCGAG
```

(2) INFORMATION FOR SEQ ID NO:646:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 257 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:646:

```

GGAGATTGA AGAAGAATTG AATGAAAGGA TGATTCAAGC AATTGATGGG ATTAATGCAC      60
AGAAGCAATG GCTCAAGTCT GAAGACATTC AGAGAATCTC ACTGCTTTTC TATAACAAAG      120
TACTAGAAAA AGAGTACCGG GCCACGGCAC TGCCAGCGTT CAAGTATTAT GTGACTTGTG      180
CCTGTCTCAT ATTCTTCTGC ATCTTCATTG TGCAGATTCT CGTGCTGCCA AAAACGTCTG      240
TCCCGGGCTA TCTCGAG                                     257

```

(2) INFORMATION FOR SEQ ID NO:647:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 296 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:647:

```

GGGGCAGCAG TAAATCCAG GCCCGAATGG AACAGCAGCC CACTCGTCCT CCACAGACGT      60
CACAGCCACC ACCACCTCCA CCACCTATGC CATTGAGAGC TCCAACGAAG CCTCCAGTTG      120
GACCCAAAAC TTCTCCCTTG AAAGATAACC CGTCACCTGA ACCTCAGTTG GATGACATCA      180
AAAGAGAGCT GAGGGCTGAA GTTGACATTA TTGAACAAAT GAGCAGCAGC AGTGGGAGCA      240
GCTCTTCAGA CTCTGAGAGC TCTTCGGGAA GTGATGACGA TAGCTCCAGA CTCGAG      296

```

(2) INFORMATION FOR SEQ ID NO:648:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 324 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:648:

```

GTGCANATGT ACGGTGACCA CCTGGCCCTT GACCGGGCGG CTCGAACCTG GCGGCCCTGG      60
GACCAGCGTC TTCTTCTCA ACAGCCCGTT CCCCAGAATG TCCAGCCACT CTTCTGGGGC      120
CGGGGCTGGG GCGGGCTCGG GCTCCATGCC AGCAAGGAAC TCTCGGGCCA GGGCCCCAGG      180
CTGCTCANCC TCCTCCGCCG GGGGTTGTCC CATGTCCTCC AGCGGTGGCA GCTCACTCAG      240
GTCATCCTCT TCCTCCTCTT CCTCCTCCTC TTCCTCCTCA CCCTCTGCAT CCTCAACCCC      300
ATCCAGTACC TCGAAGTCCT CGAG                                     324

```

(2) INFORMATION FOR SEQ ID NO:649:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 309 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:649:

```

GAATTGGGCC TTCATGGCCT ACTTCTGAT ACAGATACAT TTACTACAGA AAATTTCCTT    60
TATAGGTGTA AATTTCGTGT TACAACAGGC GAGTCGAAAA ATAATAAGAA CAAAAGGAAA    120
AAAAGCAGTC ATACTTTATT TTAGGCAGTT GAGGGGTAGC TGAATAAGTT ATCCTGTGTT    180
GTTTGGTTCT GTTACTTATA GCTCAAAGTC ATCAATATGC CAGGGTGGCA TGTTTGGGGA    240
TGGTGATTTC TTGTCTTTTG CAGTCATTTA TCAGGGTGGC GTTTCCTAAA TTCTAACACA    300
GACCTCGAG                                     309

```

(2) INFORMATION FOR SEQ ID NO:650:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 309 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:650:

```

GGTGACGCCT GCTTCACATC TCTAATGAAC ACCCTCATGA CGTCGCTACC AGCACTAGTG    60
CAGCAACAGG GAAGGCTGCT TCTGGCTGCT AATGTGGCCA CCCTGGGGCT CCTCATGGCC    120
CGGCTCCTTA GCACCTCTCC AGCTCTTCCG GGAACACCAG CATCCCGAGG GTTCTTCGCA    180
GCTGCCATCC TCTTCCTATC ACAGTCCCAC GTGGCGCGGG CCACCCCGGG CTCAGACCAG    240
GCAGTGCTAG CCCTGTCCCC TGAGTATGAG GGCATCTGGG CCGACCTGCA GGAGCTCTGG    300
TTCCTCGAG                                     309

```

(2) INFORMATION FOR SEQ ID NO:651:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 390 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:651:

```

GCAAGGGCAG GCGGGTCCCC CAGTCCCGCC ATTACGGGTT GTCAGACCGT CTGCGTGTGG    60
CAGGGGCTCCC AAGGGCAGGC GGGTCCCCCA GTCCCGCCAT TACGGGTTGT CAGACCGTCT    120
GCGTGTGGCA TTTTGTGGCT TATAAGCTTC ACCCACTCAC CCCCACCCA CACCCACAT    180
CCCCCTGCCG GCAGCCCTC AACCTAAGAA GGCCAGAGCA TATTTATTTT CGGAGGGAGC    240
AGATTACTTC TCCCAGAGAA AGGAAAATCT TGGAAAAGAT TTAAAAACAC AAATCTAAGC    300
CTTGACGGTT TTTTTTCCC TTTTGACCCC CTTCCCATCT CTTCAGAATT TATCCCATG    360
GCTTTTTTTT TTCTGTGCG TGTTCTCGAG                                     390

```

(2) INFORMATION FOR SEQ ID NO:652:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 280 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:652:

GAATTCGGCC TTCATGGCCT ACCAAATTCC CTGCCTGTGC CTGCTGGGAC CAGACTCCGC	60
TGTCATGAGG GTGACATCCG CCACCTGTGC TCTTCTGCTG GCTCTGATCT GCAGCGTCCA	120
GCTGGGGGAT GCCTGCCTGG ATATCGATAA ACTGCTTGCG AATGTTGTGT TTGATGTGTC	180
CCAAGACCTC CTGAAGGAGG AGCTTGCTCG TTACAACCCC AGTCCCCTGA CAGAGGAGTC	240
CTTCCTCAAT GTCCAGCAAT GCTTTGCCAA TGTCTCGAG	280

(2) INFORMATION FOR SEQ ID NO:653:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 253 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:653:

GGTGTGTTGGC CACAGTTCGG GACCTATGGT AGAAAAATAC TCAGTAGCTA CCCAGATTGT	60
AATGGGTGGC GTTACTGGCT GGTGTGCAGG ATTTCTGTTC CAGAAAGTTG GAAAACTTGC	120
AGCAACTGCA GTAGGTGGTG GCTTCTTCT TCTTCAGATT GCTAGTCATA GTGGCTATGT	180
GCAGATTGAC TGAAGAGAG TTGAAAAAGA TGTAAATAAA GCAAAAAGAC AGATTAAGAA	240
ACGAGCTCTC GAG	253

(2) INFORMATION FOR SEQ ID NO:654:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 456 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:654:

GAATTCGGCC TTCATGGCCT AATTGAATTC TAGACCTGCC TCGGCCTCCC AAAGTGCTGG	60
GATTACAGGG GTGAGCCACC GCACCCAGCC TGTGAAATAC TATTTTATG GTAAGCTAGA	120
ATTTTAAAC TATTTCTTGC AAGTTTAGGA TTAATGAAT TACATTATGT AAAATTACAT	180
CTTTGTCTGT ATTACGTATT TGTATACAGT TGAATAGTTT TGGTAACACG TACCTTAGTG	240
CTTTACATTG ATTGGCTCAT TAATTTTATA TTTTGAGTAA TAATCATCTA ATTTTATTAT	300
TGTACAATTC AGTCTTAAAT TATGTTATGA TGTGAAAATG GTAGCTTTCT TGAGTGATT	360
TATTTTGTG GTAGTGGGCA ATGTAATTAT CACACATAAA ATGAACTGTG AGACTTTTGA	420
GCCTGAAATA TTATTCATAT TATAATGCTC CTCGAG	456

(2) INFORMATION FOR SEQ ID NO:655:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 493 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:655:

```

GAATTCGGCC TTCATGGCCT AGTATATACA TGCATTTAAT TGTGATTTTA TCACCTTTCC      60
CATTTCTTTC CCCACAAGCT GGCATTTTCAG TAGTTGCTTT TGAATAATGG TTTTGGTTAC      120
CTGGGAAGGC AGGCCCAGAA CCCATTTCCCT TGACTTGCGAG TTCCGGGCTG TGTTACATG      180
ACTGCTGTCT AGCTGATGCA TTTTTCACAT TTGTCAACTC TGGTTAGAAA CAGGTCCTCA      240
GGAGTATTCT CTAACCTGAT ATTTTCTAAA AAGATATGTT GATTCAACTT TGTTTAGCAT      300
CCTACTTTCT AGATTGTGGG GCTCATTTTG CCAGGGCCAA GCTACCAGAA AAGTAGAAGT      360
GGAGATTACC TGGTATGTAT CTCTCTGGGT GCCCCAGTTA GAGCTGCCAC AGCTCAGGAA      420
AAAGATGAGG CATAACGACC TTGAATGTAA TTGAGTAAG TGACAAAATA AGAACTACCC      480
TGGGAACTC GAG                                     493

```

(2) INFORMATION FOR SEQ ID NO:656:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 261 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:656:

```

GAATTCGGCC TTCATGGCCT ACTTGGCCTT TGTGTGTGT TGCCTTTGTC AGTCTCTGCTC      60
CTCTGGATGG GTTTCGTGTT GTTCCAAAC TGCTGGGGC TGTGCACCAT GGAGACAGTG      120
TCCTGGGCTG CCTCTAGCCT GATCTGGTGA GAATAAGCCC CTCTCCTTTG CATGCGTCTC      180
CAACCTGACA TTTGAGCAT CCAAAACAAA TCATGACATT CCAAGTAAA GATAGAAACC      240
ACCGTCTCCA CTCCACTCGA G                                     261

```

(2) INFORMATION FOR SEQ ID NO:657:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 621 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:657:

```

GAATTCGGCC TTCATGGCCT AGATGGTCTC TGCTGCTCTT GCCTCTAGTT CATGGAGATG      60
TGCTCTGTT CAGGCCAAGA TACAGCCAGC CAGGCCTGTC GTCTGGGACC CAGGAGGCCT      120
CTGATGACCA AGGGCTTTCA CATCCTAAGT CATTGGAAG GAGGCCTTGA GAACAAAGTC      180
ACCTTTGTCA CTCCAGTGA ACTGAATGAG GAACATGCTG TCTCCTGTCT TGGCCTCCCC      240
TTTCATGAGA TACTGGGGAG AAGAGAACAT TCCTCCTGGC TTAGTTGTAG CAGACCCAGA      300
CCTGTGCCCC GCTTTGGTCC CCCTTCCCAA CTCTGAAGC ACGTGCTGCA GAGCCACCTT      360
GGTCTGAGCA CCTGAGGACC AGCCCTCCT CCCTCAGTGC GGGTCATCTC TTGGGGGATT      420
TTCTTAAAGT GAAGAAAGGG GGTGGGGAAC CATATTGCCC CTCCCTCCCC CATCAAACCTT      480
CCTTCATTTA ACTTGCTATA AAATGAGTCA TATAAAGAAA CTCTATATGG GTGAGGTATA      540
TCCCACTTCT GTGAAAACAT TACAAATCAA ACCGCTTCTC TCAGTTTATT TAAGATGCTT      600
TTGTTGCAAG CGGTACTCGA G                                     621

```

(2) INFORMATION FOR SEQ ID NO:658:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 567 base pairs
- (B) TYPE: nucleic acid

(C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:658:

```

GAAGTCTTGG AGATTCTAG TTTATTTCATT AACAGCAGAA GGATGGAAGA AAATTCCTCT    60
GGCAATACCA TGTGAGCCTC TTCGATGTTT AATACAGAAG AAAGAAAATG TTTGCAGACT    120
CACAGAGTCA CGGTGCATGG GGTCCCAGGG CCAGAGCCCT TTACCGTTTT CACTATTAAT    180
GGAGGCACCA AGGCAAAGCA GCTTCTGCAG CAAATTCTGA CAAATGAACA AGACATCAAA    240
CCTGTTACCA CAGACTATTT TTTGATGGAA GAAAAATATT TTATATCTAA AGAAAAGAAT    300
GAATGTAGGA AACAACCATT CCAGAGAGCC ATTGGTCCAG AAGAGGAGAT CATGCAAAAT    360
TTAAGCAGCT GGTTCACAGA AGAGGGATAC ATGGGCAGGA TTGTCTTAAA AACCCAGCAG    420
GAAACCTAG AAGAGAAAAA CATGTGTTCAA GATGACAAAG AGGTGATCTT GAGCTCAGAG    480
GAGGAGAGTT TCTTTGTCCA AGTGCATGAT GTTCTCCAG AGCAACCTCG AACAGTCATC    540
AAAGACCCC GCGCCAGCAC ACTCGAG                                     567

```

(2) INFORMATION FOR SEQ ID NO:659:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 388 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:659:

```

GAATTCGGCC TTCATGGCCT AGGCCCTTTG GCCTGGGGT GGGGGTGCTT ACTACATCCC    60
TGGAAGGTGC AGGGAGGCTG ATGGCCTTGA TCTCTAACAC AAACAGGAAC CAGCTTCCTC    120
CCTCCCCCAC CCTGGGTTC CAGGGCCTCC GGGTGTGAGA TCCTCCCCCA CTGCAGTGCC    180
CCACCCGCTC CCCACAGAAG CCCGGAGAGT GGCTCTGTCA CCAGAGGTGT CATTTCCAG    240
CTGTCTGTGG GAGGTGAGTG AGCAGGGAAT GTGTGTGCTG GGTGTGGGAA CTCAGCCCAA    300
TCTAAGAGAA GATACTCTTG GCTTCCTCCC CCTCAGAGGA GCAGCCCGCT CCCTGGTCCT    360
TGTGCACTGA CAGTCCCGGA GTCTCGAG                                     388

```

(2) INFORMATION FOR SEQ ID NO:660:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 491 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:660:

```

GAATTCGGCC TTCATGGCCT AGCCAGGAGT TGAGGTGGAA GTCACCATTG CAGATGCTTA    60
AGTCAACTAT TTAAATAAAT TGATGACCAG TTGTAACTT CTGTGGTTT TTATTCAGAA    120
TACTGGCAGA TTTTAGGAAT ATAAAGGTGT ACTATGAGAC TTCCACTTTT CAGGTGGAAT    180
ATATGGGTAT CTTAGAGTGG TCTATCTGT TTTGTTGTC GTTTGAGTCA TTTGAAAAC    240
GGATTCCGTT AACTACATAA TATGTGAGAC CTGACTGGTT TTATTGGACA CTGGCAGTTT    300
ATAACTTTGG CATACTCTAG ATAAATCTG ATTGGTATGG GGTGTTAAGG TTTCTGGGCG    360
GTTTGTATG CACACCCATG GTTGAGAACC TAGTGCCTA GTAGGCACGT GTTAAAAAGC    420
TAGTAATAA TATTTTAAAT TTAACCAAGT TTAACGTCCT TAAAAAAGGA TTAAGTGGCA    480
AGGACCTCGA G                                     491

```

(2) INFORMATION FOR SEQ ID NO:661:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 310 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:661:

```

GAATTCGGCC TTCATGGCCT ACCTCAATAT GCTATCAGAT TCTGAAAATT CCCAGCATCT    60
GGAAC TTCAT GAGCCACCAA AAGCTGTGGA TAAGGCGAAA TCCCAGGGG TTGATCTTAA    120
GCAGTTGGCA GCAGAACTCC AGAAGGTTTC ACTACAGCAG TCACCGCTGG TTCTGTCTATC    180
AGTTGTTGAA AAAGGATCTC ATGTTTCATTC AGGTCCTACA TCAGCAGGAT CCAGTTCGCT    240
TCCCAGCCCT GGGCAACCAG GGTCCCCCTC AGTGAGCAAA AAGAAGCACG GCAGCAGCAA    300
GCCACTCGAG                                     310

```

(2) INFORMATION FOR SEQ ID NO:662:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 404 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:662:

```

GAATTCCTAT GGCCTACTTC CGGCGCAAGT GGCTTCTGAT AATCATGGCG CCCCTCGGAA    60
CAACTGTATT GCTGTGGAGC CTCTTGAGGA GTTCTCCGGG CGTGGAACGG GTCTGTTTCC    120
GGGCTCGAAT CCAGCCCTGG CACGGTGGCC TGCTCCAACC GCTACCTTGC TCTTTCGAGA    180
TGGGGCTGCC ACGCCGCCGG TTCAGCTCCG AGGCCGCAGA ATCTGGTAGC CCAGAGACCA    240
AGAAACCTAC ATTTATGGAT GAGGAAGTTC AAAGCATACT CACGAAAATG ACAGGCTTGA    300
ACTTGCAGAA GACTTTTAAG CCAGCTATAC AAGAACTGAA GCCACCAACC TATAAGCTAA    360
TGACTCAGGC ACAGTTGGAA GAGGCTACAA TACAGGCTCT CGAG                                     404

```

(2) INFORMATION FOR SEQ ID NO:663:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 224 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:663:

```

GAATTCGGCC TTCATGCCTA ATTTGTGTGA TGGCCAAAGA GTTCTTATCA GAAGTGGCAA    60
AAACTACATA CAGGTTGGCT TCCAATAACA TGAGCCAGGT ATTTTTCAGT AATATTTTGA    120
AGTGTCTTTT CTTTCTAGAC ATGCACATGA TGGTGTCCAA GCCAGAACAG TGGGTAAAGC    180
CAATGGCTGT AGCAGGAGCC AATCAGTACA CCTTTCATCT CGAG                                     224

```

(2) INFORMATION FOR SEQ ID NO:664:

- (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 476 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:664:

```
GAATTCGGCC TTCATGGCCT AGGTCTACCA AAGTGAGGAC ATTACTGCAG ATATTCTTCT    60
CCTTTTCTCC TACATTATCA TTTCTCTTTT ATAACATCAT TTCTGCAGAT ATGTAAAAAT    120
ACATCCCATC TTCAAAAAGA AAAACAAAAA TCTGACTGTA CTTCATATCC CCTTCTAGAC    180
ATTGCCACAT TTCTCTACTT CTGTTTACAA CAAAACCTCT GGAAAGATTT GTCTATACTG    240
GCTTTCTCTA CTTCTTTTAC TTCCATTCTT TTCCTAACCA CTCTAAACAT GCTTGGGTCC    300
CCACCACTGT AACAAATATA ATTTGTGTCC AATAACCACT GATCTCTGTA TCACCGGTTT    360
CAAGGGTGAG ATCTCAGACT TCACCTTTCT GGATTGATTG ACACATTGGA CTCAGTTGGT    420
TACTCCTCAC TTCTTGAAAC TGTCTTCACT GGGCTTTTGG GACTCCATAT CTCGAG      476
```

(2) INFORMATION FOR SEQ ID NO:665:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 238 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:665:

```
GAATTCGGCC TTCATGGCCT ACTCTCTACT CCTTTGTGCT CAATTTCCAT TGTGGAATTC    60
TGCATATATG ATCTTGTGGC ACATTTCTAC ATTTCTCTCAG CCCAGAAGGC CTTCCCTGTT    120
CACTATCTCC TTCTTTTAC TAACTCTTAC TATATTTCCA GGCACAGTTC AGGCATCAGA    180
TAGCCCTATT TGTTCCTACT TTCACCGTAG GTCAGATTAT AAGCCTTGCA ATCTCGAG    238
```

(2) INFORMATION FOR SEQ ID NO:666:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 361 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:666:

```
GAATTCGGCC TTCATGGCCT AGACCATTTT CATGTGTTAT AGTTTATTTT TTATAAATAG    60
TGCTTTCTGG AATATCCTTA AATACCTCTA TCTTTTAAAC ATCCTTGTGT ATACATCTTT    120
TCTCACACTT GGCTTCCTCT TGAATAGAA TCTCCTGGAA ATTAGATAGC TGAGGTAAAA    180
GTCCCTGAAC CTTTACAAA TTGCTACACA ATAAATACCA AACTGATTTT CAGGAATGTA    240
GTCCCATCAA CAGTGTGCTT GTTTATCCAT ATCGTGTCTG ATCTGAGTTT TGTCACTCTA    300
TTGATTCCTA CCAATCTGCC AGTATCATAG ATTTTAAAAAT ATTTTGTG TGCACTCTGA    360
G
```

(2) INFORMATION FOR SEQ ID NO:667:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 343 base pairs

(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:667:

GAATTCGGCC	TTTCATGGCCT	ACTCATACAC	AATGAATACA	AAACTGGAA	CTCTGCAATT	60
TAATACTGTT	TCCAACTGG	ACACTGGAGA	ATATTCTGT	GAAGCCCGCA	ATTCTGTTGG	120
ATATCGCAGG	TGTCCTGGGA	AACGAATGCA	AGTAGATGAT	CTCAACATAA	GTGGCATCAT	180
AGCAGCCGTA	GTAGTTGTGG	CCTTAGTGAT	TTCCGTTTGT	GGCCTTGGTG	TATGCTATGC	240
TCAGAGGAAA	GGCTACTTTT	CAAAGAAAC	CTCCTTCCAG	AAGAGTAATT	CTTCATCTAA	300
AGCCACGACA	ATGAGTGAAA	ATGATTTC	GCACACCTC	GAG		343

(2) INFORMATION FOR SEQ ID NO:668:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 266 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:668:

GAATTCGGCC	TTATCCTACA	ACTTTGAATA	GACATAAGAG	TGCCTGTCTG	CATAAACCTT	60
CATCAACATT	GGTATTATCT	TTCTTTTCA	TCCTTGCTAA	TGGATAAGT	TTAAAAAGT	120
GTAACACATT	TTAGTTTGCA	TAGCTTTGAT	TATAAGTGAG	GTTCGACATT	TTTTTTCATT	180
TCCTTACACT	TTAAAAAATC	TAACCGTGGC	AACGTTTGCA	GGTGTGTGTT	CTTCTTATGT	240
TGCTGAGTGT	TATTTACTCC	TGGACG				266

(2) INFORMATION FOR SEQ ID NO:669:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 452 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:669:

GAATTCGGCT	TCATGGCCTA	CAAAAAAGAA	ATTAAGAAGC	TCCTAAAGAC	GCAAAGAAAT	60
CATCTACTCC	TCTGTCTGAA	GCAAAAAAAG	CAGCTGCTTT	AAAACCAAAA	GTACCCAAGA	120
AGGAAGAGTC	TGTCAAGAAA	GATTCTGTTG	CTGCCGGAAG	GCCAAAGGAG	AAGGGGAAAA	180
TAAAAGTCAT	TAAGAAGGAA	GGCAAGGCCG	CAGAGGCTGT	CGCTGCAGCT	GTCGGCACTG	240
GAGCCACCAC	AGCAGCTGTC	ATGGCGGCAG	CTGGAATAGC	AGCCATTGGC	CCTGCCAAG	300
AACTCGAAGC	TGAGAGGTCC	CTTATGTCAT	CTCCTGAGGA	TCTAACCAAG	GACTTTGAAG	360
AGTTAAAGGC	TGAAGAGGTC	GATGTAACAA	AGGACATCAA	GCCTCAGCTG	GAGCTAATCG	420
AAGACGAAGA	GAAACTGAAG	GAAAACTCG	AG			452

(2) INFORMATION FOR SEQ ID NO:670:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 284 base pairs
(B) TYPE: nucleic acid

(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:670:

GAATAATTGA CTGAAAGTGT AGTGTGAGT GGTAGAATAA GTGCTGATCC TGGGGTCTTA	60
TACCAATGTT GCTAACTGTG AGCAGCCTTT GTCAAATCAC TTGGCTTCAT TTTCAGTGGC	120
CTAAGAGTAA TAGGTTTAAT TATTCCATA ATTCTTTAA GTTTTACAT TTTCAGTGT	180
CATCTTTTGT GTTTTCTG GCATTTTACT ATTCTCTTT CCTGCTTTTG GCTATTTTCT	240
CAACAGGTCC ACGACTGGAA TTGAAAGCA AGAAACATCT CGAG	284

(2) INFORMATION FOR SEQ ID NO:671:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 235 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:671:

GAATTCTGGA AGCAGCCTAT CATCGCTCCG TCTGCCCTCC ATACACAGCG TTGTGTGTG	60
TTATGCCAAA CTGCTGGTG TTTTCCAACC GTGGACCATG ATATCTCACT TCCTTAACCT	120
TACCTTCATA TGCTTTTCTT TTGTGTCTTC TTCTGAAATG CTCTTCCTT TTGTCCAGGC	180
TGACTCCTGT TTGTCTGAGA CATGTGTCTC AGGAAGCCTT TCCGTTCCCC TCGAG	235

(2) INFORMATION FOR SEQ ID NO:672:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 370 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:672:

GAATTCGGCC TTCATGGCCT AGCATTGATG GCCCATGTAG AAGACCTGAT CATTAGACT	60
ATAATCTCTG CTGAACTAGC TATTGCTACT GCCTGTAAAA CCTTGTTC TCATCGCAGC	120
AGTTGTTTGG AACTCTATGG CTTTGACGTG CTCATAGATT CTACTCTGAA GCCATGGTTG	180
TTGGAAGTGA ATCTCTCTCC TTCTTTGGCC TGTGATGCGC CTCTGGACCT AAAGATTAAA	240
GCCAGTATGA TTTCAGATAT GTTCACTGTT GTAGGATTTG TGTGCCAAGA TCCTGCCCAG	300
CGGGCATCAA CTCGGCCAAT TTATCCCACC TTTGAGTCTT CCAGGCGAAA CCCTTTCCAG	360
AAACCTCGAG	370

(2) INFORMATION FOR SEQ ID NO:673:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 295 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:673:

GAATTCGGCC	TTCATGGCCT	ACACAGACAT	CATCATGCAG	AAGATGACCA	TTTCCAACAT	60
GGAGGCAGAT	ATGAATAGAC	TCCTCAAGCA	ACGGGAGGAA	CTCACAAAAA	GACGAGAGAA	120
ACTTTCAAAA	AGAAGGGAGA	AGATAGTCAA	GGAGAATGGA	GAGGGAGATA	AAAATGTGGC	180
TAATATCAAT	GAAGAGATGG	AGTCACTGAC	TGCTAATATC	GATTACATCA	ATGACAGTAT	240
TTCTGATTGT	CAGGCCAACA	TAATGCAGAT	GGAAGAAGCA	AAGGAAGTAC	TCGAG	295

(2) INFORMATION FOR SEQ ID NO:674:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 156 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:674:

GAATTCGGCT	TCATGGCCTA	CCTGCCTCGA	GTGATGGGTA	TCGGGATGGG	TATCGGGATG	60
GCCACGCCG	GGATATGGAT	CGATATGGTG	GCCGGGATCG	CTATGATGAC	CGAGGCAGCA	120
GAGACTATGA	TAGAGGCTAT	GACTCCCAGA	CTCGAG			156

(2) INFORMATION FOR SEQ ID NO:675:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 265 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:675:

GAATTCGGCC	TTCATGGCCT	AATAATTGT	AAGTTAAAT	AAGTAATACA	AATTAAATGC	60
AAATCAAATG	CCTGAAGAAG	AAGCACGAAT	ACCTATTTTG	AAATCTGCTG	TAGCCGAGAC	120
AGCTTCTAAA	TCTCCCACTT	GGGTTCTGTT	TCTGGAAGGT	GTGGGTCCTG	TGGTAGCTGG	180
AGTGTGGTG	GCCATCTTGG	TGCTGGCGGT	CCTCATGCTG	ATGTACTACT	GCTGCAGACA	240
GAACAACAAA	CTTGGCCAAC	TCGAG				265

(2) INFORMATION FOR SEQ ID NO:676:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 123 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:676:

GAATTCTGGA	TCAAAACAGA	GGAAAATGGT	GGGAATTCTT	GTATAGATAC	AGTCTAACAT	60
AGAAACCCAT	GCCCATCAGC	AGTAATTTCC	AGTCCCCCAG	TCCTCCAAGC	CCTGGTACTC	120
GAG						123

(2) INFORMATION FOR SEQ ID NO:677:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 243 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:677:

```

GAATTCAGAG ATAAAGCTAA AGTTCATTT GAGCACCAGC CCAAATCCTG GACTTCTTTC      60
TGCTCCTCCT CAGAGGTTCT CTGGTTATAA GTTTTATGTG TATCTTGCCA GAATTTTTC      120
TATGTTATTA ATACAAATAT ATGTAGCCAC AGAAATTATA GCGTGTCATT CAGCCTTTGG      180
TTTTATTGTC ATTGATAGTA TTATGTCCAT ATCACTCTAC AACTTCTTAG GCCATGAAGG      240
CCG                                     243

```

(2) INFORMATION FOR SEQ ID NO:678:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 121 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:678:

```

GCGATTGAAT TCTAGACCTG CCTCGAGACC ACCTATGGAA GCCAAGTGTT CCCGGGCCAT      60
GAGACCTGCC CAATCAAGCA GAAACACATT TGGAGAGACA AACAAATCAG ACACGCTCGA      120
G                                     121

```

(2) INFORMATION FOR SEQ ID NO:679:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 283 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:679:

```

GAATTCTAGA CTGCTCGA GTACCTGATC TTTTACTGTC TCTATAGGTT CATCTTTTC      60
TTCCCTTTGT TAATTCTACT TTTTAGTTTT TTTGCTAGAT TTTTCTTGCA ATTGGATAGG      120
CCCATTTAAC CTATTTTGCC TCCACTCTAA ATTCAGTACT CCAAGAATTG GTTTCACCTCT      180
TCCAAATTTT GTATATAAGC CAGAGTTCTG CATAAAGGAA AATACTTAAA TTCTTTCTAA      240
TCTAATGTGG TTTCTGTCAT CTTTCAGGAA ACITTTCTCT GAG                                     283

```

(2) INFORMATION FOR SEQ ID NO:680:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 373 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:680:

GAATTCGGCC	TTCATGGCCT	AGGGTTTGTG	GCTAAAAATT	ATGCTTAAGA	ACACATCTAA	60
CAAACCTAAA	GCTGCAAAGA	CATAATGTTA	ATGTAGGTGA	AAATTTCACT	TGTGTTTATT	120
CTGATAGACA	AAATGTATTT	TTAGATGAGA	AGCAACAATT	TTCATGTGTG	ACTGAGATTG	180
TTAGTAATGA	AATACTTCCA	AATATTAGTG	ATGGTAGAAA	TCTAGTGTAG	GGCTCTTTGC	240
TGAGAAGGGA	AAAAAGTCAC	ATAAGAAATC	TACTTTTCAG	TAAACTGCAA	ATATGTGTGC	300
TTCAACCTAT	AACATATTCT	GTCACTTTGA	GCTTGTCTAT	TTGACAGAGA	ATGAAAACCT	360
GATAAGACTC	GAG					373

(2) INFORMATION FOR SEQ ID NO:681:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 253 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:681:

GAATTCGGCC	TTCATGGCCT	AGAGCGACTT	CGACACCATG	CCAGACATTG	AGAGTGATAA	60
AAACATCATC	CGGACCAAGA	TGTTCCTTTA	CCTGTCAGAT	TTGTCCAGGA	AGGACCGGAG	120
AATTGTCAGC	AAAAAATATA	AAATTTATTT	TTGGAACATC	ATCACCATTG	CTGTGTTTAA	180
CGCGCTGCCC	GTGATCCAGC	TGGTCATTAC	CTATCAGACA	GTAAGTGCTA	AACCTAGCCC	240
CAAACCCCTC	GAG					253

(2) INFORMATION FOR SEQ ID NO:682:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 436 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:682:

GAATTCGGCC	TTCATGGCCT	AATCGAGGAG	AATGGAGACC	AAACCTGTGA	TAACCTGTCT	60
CAAAACCTC	CTCATCATCT	ACTCCTTCGT	CTTCTGGATC	ACTGGGGTGA	TCCTGCTGGC	120
TGTTGGAGTC	TGGGGCAAAC	TTACTCTGGG	CACCTATATC	TCCCTTATTG	CCGAGAACTC	180
CACAAATGCT	CCCTATGTGC	TCATCGGAAC	TGGCACCACCT	ATTGTTGTCT	TTGGCCTGTT	240
TGGATGCTTT	GCTACATGTC	GTGGTAGCCC	ATGGATGCTG	AAACTGTATG	CCATGTTTCT	300
GTCCCTGGTG	TTCTTGGCTG	AGCTCGTAGC	TGGCATTTCA	GGGTTTGTGT	TTCTGTCATGA	360
GATCAAGGAC	ACCTTCCTGA	GGACTTACAC	GGACGCTATG	CAGACTTACA	ATGGCAATGA	420
TGAGAGAAATG	CTCGAG					436

(2) INFORMATION FOR SEQ ID NO:683:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 286 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:683:

```
GAATTCGGCC TTCATGGCCT AGTCCCCACT TTATCTCTTT AAACGGTTTC TTTTCTTTT 60
TTTTTTTTTA GACCTCTCAG GGATGAAACA TTTTATTTT TAACTAGTT TTTTCTTAA 120
ATAACATTAA CACATGCTGA ATGCTTAAAT CTTTCTAGAA TTCAGAAAGG TAAATGAAA 180
GTCACCATTG TCATTCTCAT CATCTTACTC CCAGAGATGA TTGTTATTAA TATTCCAGA 240
AATTTTGCTT GTATATGCAA ACAGCAATAT ATTGTAGCTG CTCGAG 286
```

(2) INFORMATION FOR SEQ ID NO:684:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 276 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:684:

```
GAATTCGGCC TTCATGGCCT ACCCTTACCA GATACTGAAT CTGCCAGTGC CTTATTTTGG 60
ACTTCTCAGC CTCCTGGGCT GGGTGAGGTG GTTCACTACC AGCCTTGGCA CCATAGTGAG 120
ACTCCCATCT CTACAAAAAA AAAAAAAAAA AAACCTTCTG TTGTTGTAA GCTACCCAGT 180
TTATGGTATT TTGTACAGC AACCCAAACA GTCTGAGACG TTAGCTTAA CTCCTGTATG 240
CACTAGATAC AGTCTGCACT TTGACATCAA TCTCGA 276
```

(2) INFORMATION FOR SEQ ID NO:685:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 155 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:685:

```
GAATTCGGCC TTCATGGCCT ACTAAGAATA GGAAAAAAAA TAACACTATG ATACCACAAC 60
CTTATTACAT CAAACTGCTT TGGGCTTTAT CCTCTTTAAA GTGTGCTCAG GTGTTTCAGCC 120
ACGAGGTTTC TGACAGCCCT CATAAGACCT TCGAG 155
```

(2) INFORMATION FOR SEQ ID NO:686:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 301 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:686:

```
GAATTCGGCC TTCATGGCCT ACTTTGAAGA GTACGATTTT AAAACCAGCA ATTGGTGTGA 60
ATGCAAAAAC ATTGTGTGGC ACCATTATT TAAAAAAA AAAAGCTGTA TGCAGCAGAA 120
```

```

AGCCTTATAC AAGTTGTTTT TCTTTTTTTC CTTTTTCTTT TTTTGGGTAC CTTCAATTCT 180
GTTACTTTTA TATAAAATTC TCTGCAAAGG AAGGCCTCTC TTTGGACTAC AATTTGGAGG 240
CAGCCACTTG TTGTGCCTGC TTCTGTAAAG GAATGTGGAT ATCAAGCCCC CCCGACTCGA 300
G 301

```

(2) INFORMATION FOR SEQ ID NO:687:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 254 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:687:

```

GAATTCGGCC TTCATGGCCT AATTTTACAA GAAATTATTT CCACAATCAG AAGTACTGTA 60
CTGATTGCAT TTCTTTGTCT CAAAAAGTTT TCCTTATGTT TCTCAAAGCA GTATTTACAC 120
TAATTATTCA ATTCTTATCT TTCTTTCAGT TTTCTCCAAT AGACTGTGAG ATCTTTGAGG 180
GCCAGGTTGA CATGTCTCTG ATACCTACAC CCTATGCAGC TCCTAGTGCA GGACCTTGCA 240
GTGACAAGCT CGAG 254

```

(2) INFORMATION FOR SEQ ID NO:688:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 261 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:688:

```

GAATTCGGCC TTCATGGCCT AATATTTATT TAGATGCTAT TATTACTGTT TGGACTTTTA 60
TTTTGGCAGG CTTTGTTCCT GACTGTAGGG TTTTCCAATG TGAATAATGA CCACTCCTGC 120
CTCTCCCGTG GTGTATTTTG GGCACCCTCC CACCCGGCTG CATACCCGGC CAGGGCTCCC 180
ACAGAGACAA GGAGGGCACA GGTGTCTGCC CCCTCTTTGA AATCGATATA CACACATCCA 240
CGCATATGCG GCCCACTCGA G 261

```

(2) INFORMATION FOR SEQ ID NO:689:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 214 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:689:

```

GAATTCTAGA CCTGCCTCGA GCTTCTGGCT GTTGTCTTTG CTGGGCATCC TTTTACAAG 60
TGGAAGAAGT AGGATGGCTT TCCAAAGTCT TCTAGAAATG AAGTTCTTTC TCTGTGCAGC 120
TTTCCCCCTT GGAGCAGGAG TGAAGATGTT TCATTATCTT GGGCCTGGGA AACCACTTCC 180
CCAGGCTTCT CCCTCCCCC ACCCCGACT CGAG 214

```

(2) INFORMATION FOR SEQ ID NO:690:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 307 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:690:

```

GAATTCGGCC TTCATGCCTA CAAACTTAAA AGTAAATCTT TGGAAATCAG ATAGTAGTCT    60
TGAAACTATG GAAAACACAG GAGTGATGGA TAAGGTTTCAG GCAGAGTCTG ATGGGGACAT    120
GTCTTCAGAT AATGACTCAT ACCACTCTGA TGAATTCCTT ACAAATTCTA AGTCTGATGA    180
AGACAGGCAG CTAGCTAACT CATTAGAGAG TGTAGGGCCA ATAGATTACG TTCTTCCTAG    240
TTGTGGTATT ATTGCCTCAG CGCCTCGATT GGGCAGTCGG TCCCAGTCTC TTAGCAGCAC    300
ACTCGAG

```

(2) INFORMATION FOR SEQ ID NO:691:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 493 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:691:

```

GAATTCGGCC TTCATGCCTT ACTCCATATT TATTAGATG CTATTATTAC TGTITGGACT    60
TTTATTTTGG CAGGCTTTTT TCCAGACTCT AGGGTTTTCC AATGTGACTA ATGACCACAC    120
CTGCCTCTCC CGTCGTCTCT TCTGGGCACC CTCCCACCCG GCTGCATACC CGGCCAGGGC    180
TCCCACAGAG ACAAGGAGGG CACAGGTGTC TGCCCCCTCT TAAAAATCGA TCTACACACA    240
TCCACGCACA TCGGACCCCG AGGAAACGAA ACCCACTCTA GAAAACGCGA CCTTGGCCGC    300
ACCTAAAGCA GCCAGCCGTG AGTGCAGACC CCTTGGCCAG CGTGGCGCAG TGGCCCTGAG    360
CAGTAGTGGC GTGTGTGTAG ATCAAGTCGG ATCTAGTCCA GCTCGGTTCA TTAGCGATCC    420
ATGTAATCTG ACGTCATCTT GTCTCGAAGT CTCITTTTTT GGCCCAGGCC TTGAAGAATA    480
CACTGGACTC GAG

```

(2) INFORMATION FOR SEQ ID NO:692:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 225 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:692:

```

GAATTCTAGA CCTGCCCCCTG CCTCCTGCAT CCAGCCCCCA ACATGGTGCC AAAGCTTCCA    60
GAAGCCAAAA AGCTTCTGAT TTTTAAGGTA GTGGGCATCT CTCTCCTAAT GACGAAGCTG    120
CTCAGCAACT CCACCTGCCC GCCGCAGGAA GGAGCAGTCC CCTGCTATCC CTGCAGCCAC    180
TCCCAGCACA CCCGCACACA GCCAGCACCA CCGCCCACTC TCGAG

```

(2) INFORMATION FOR SEQ ID NO:693:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 251 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:693:

```
GAATTCGGCC TTCATGGCCT ACTGGCTCAT ACAATACATC AATAAGTATG CAACTTTTCA    60
TTTGTTATTT CGTTGCTGGA AGTGGGAAAT ACCCCATCTT CCCAGGAGTG AAATGGTTCT    120
ACTTTCCTCTC CGTGGTGCCC TGTATCATTG CTCAGCTCTG CTGCTGCTCT CGCAGCCCCC    180
TAAAGTAGC ATGGATCGGG GAAGAAGGAA GGACGGCAGG AAGGCAGGCA GAGATCCTCA    240
GGCAGGTCGA G                                         251
```

(2) INFORMATION FOR SEQ ID NO:694:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 294 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:694:

```
GAATTCGGCC TTCATGGCCT AGTGTGTGTG TGC GTGTGTG TGTGTTTACA TATAAAGTTT    60
TTTGGTAACA AATAAATTTT GTTAGAGCTA GTCAGATTTT TGTTTGCTTA ATCTGCTAGT    120
TTTGGTAGGT TATATTTTTC AAGGAATTG TCCATTTCAC CTATGTTGTT GAATTTTGGG    180
TGTAACGTTT TTCATTACTC TTTTCTTTT AATATCTGTG GGATCTGTAA TGATGCCCCC    240
TCTTTCATTC CTGATATGAG TAATTCTTAT TCTCTTTTTC TCTATCAGCT CGAG          294
```

(2) INFORMATION FOR SEQ ID NO:695:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 246 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:695:

```
GAATTGGCCT TCATGGCCTA ATTGGGACCA AATAGAGGCT CACAGATATT TGGATTATTT    60
TATGTGCTTA TTATTAAATA AGGAAAGCAT TTTGTGATAT GTGGAAGACG CTATGTGAAG    120
TTTTACCTAT CTTCTCAAAG ACCTTTTCTT TTGTATTTTC TTTTGGTGT TCTTAAAGCC    180
AAACAAAGAA ATGTTCTTAA GGAGACAGGG TGGGTTTTTC TGTGGGCCTA GGCCATGAAG    240
GTCGAG                                         246
```

(2) INFORMATION FOR SEQ ID NO:696:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 349 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:696:

GAATTCGGCC	TTCATGGCCT	ACCCTAATAT	AAAAAGCATT	GTCACCATGT	TGATGCTGAT	60
GCTATTGATG	ATGTTTGCTG	TCCACTGTAC	CTGGGTCACA	AGCAATGCCT	ACTCTAGTCC	120
AAGTGTAGTC	CTGGCCTCAT	ACAATCATGA	TGGCACCAGG	AATATCTTAG	ATGATTTTAG	180
AGAAGCTTAC	TTTTGGCTAA	GGCAAATAC	AGATGAACAT	GCACGAGTAA	TGTCTTGGTG	240
GGATTATGGC	TATCAGATAG	CTGGAATGGC	TAATAGAACT	ACGTTGGTGG	ATAATAACAC	300
CTGGAATAAC	AGCCACATAG	CACTGGTGGG	AAAAGCTATG	TCTCTCGAG		349

(2) INFORMATION FOR SEQ ID NO:697:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 220 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:697:

GAATTAAATA	AGTTACTGAC	TTTGTGACTT	ATTTAATTCA	TATTAATATA	TTAGGCTTCC	60
CAACTGACGG	TGTTGCAGTT	GAGCTAGCTT	CCAGTTTGG	AGAAACACAT	AGTTGATTAG	120
TCTGTGAGT	AATTTTCAGG	GATATTAATA	TAACTTTGAT	ATTAGTGAGA	AATTTTCTTT	180
CAGTAGTAAA	ATGTTTTCTA	ACTTAGGAGC	TGTTCTCGAG			220

(2) INFORMATION FOR SEQ ID NO:698:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 353 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:698:

GAATTCGGCC	AAAGAGGCCT	AGCAGAGCTT	TCATATCCAC	GATGCGTTTT	CTGGCCGCCA	60
CGATCCTGCT	GCTGGCGCTG	GTCGCTGCCA	GCCAGGCGGA	GCCCCTGAC	TTCAAGGACT	120
GCGGCTCTAA	GGTGGGAGTT	ATAAAGGAGG	TGAATGTGAG	CCCATGTCCC	ACCGATCCCT	180
GTCAGCTGCA	CAAAGGCCAG	TCTACAGTG	TCAACATCAC	CTTTACCAGC	GGCACTCAGT	240
CCCAGAACAG	CACGGCCTTG	GTCCACGGCA	TCCTGGAAGG	GATCCGGGTC	CCCTTCCCTA	300
TTCTTGAGCC	TGACGGTTGT	AAGAGTGGAA	TCAACTGCCC	CAGTACAGTC	GAG	353

(2) INFORMATION FOR SEQ ID NO:699:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 298 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:699:

GCGATTGAAT TCTAGACCTG CCTCGCTTCC CCACCCTTAC TAACATTAAC GAAAATAACC	60
CCACCCTACT AAACCCCATTT AAACGCCTGG CAGCCGGAAG CCTATTGCA GGAATTCTCA	120
TTACTAACA CATTTCCCC GCATCCCCCT TCCAAACAAC AATCCCCCTC TACCTAAAAC	180
TCACAGCCCT CGCTGTCACT TTCCTAGGAC TTCTAACAGC CCTAGACCTC AACTACCTAA	240
CCAACAACT TAAAATAAAA TCCCCACTAT GCACATTTTA TTTCCCCAAC TCCTCGAG	298

(2) INFORMATION FOR SEQ ID NO:700:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 370 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:700:

GAATTCGGCC TTCATGCTTA GCCTCAGCTC TTTCTTCTGG GTTGTGTTGTA TTTTCTTTTC	60
TGTCCCAAAC AGTTTCCCC ACAAAAAGAA CTTTATGTCT TTCTCTGTCT TCCCTCAGTC	120
CTTCCAGTCA GCAGCCTGTG ATTGGGCTTT TCCCTCAGA AACGAACAAT CCAGAACCCA	180
CTGTTTAAAA CAACTGTATT TTGCCTGGG AAGTCCCAAT GCCTTCCCTG AAAACATTAA	240
ACATTCTCTC GATCCCCAGC CTGAGTCTCT CTGTCTCTGG GCCCATCCT GCTCCACAGC	300
AGGGCTGGTG TGTCCAGCAC AGAGTGACCC TCCGATGCC TTTCCACCC GCCGCCCTGC	360
CTCCCTCGAG	370

(2) INFORMATION FOR SEQ ID NO:701:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 515 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:701:

GAATTCGGCC TTCATGGCCT AGGAAAGATC TAATTATCAT GGACCTGCGA CAGTTTCTTA	60
TGTGCTGTC CCTGTGCACA GCCTTTGCCT TGAGCAAACC CACAGAAAAG AAGGACCGTG	120
TNCATCATGA GCCTCAGCTC AGTGACAAGG TTCACAATGA TGCTCAGAGT TTTGATTATG	180
ACCATGATGC CTTCTTGGGT GCTGAAGAAG CAAAGACCTT TGATCAGCTG ACACCAGAAG	240
AGAGCAAGGA AAGGCTTGA AAGATTGTAA GTAAAATAGA TGGCGACAAG GACGGGTTTG	300
TCACTGTGGA TGAGCTCAA GACTGGATTA AATTGACA AAAGCGCTGG ATTTACGAGG	360
ATGTAGAGCG ACASTGGAAG GGGCATGACC TCAATGAGGA CGGCCTCGTT TCCTGGGAGG	420
AGTATAAAAA TGCCACCTAC GGCTACGTTT TAGATGATCC AGATCCTGAT GATGGATTTA	480
ACTATAAACA GATGATGGTT AGAGACGTTT TCGAG	515

(2) INFORMATION FOR SEQ ID NO:702:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 381 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:702:

```

GAATTCGGCC TTCATGGCCT AGGGGACCTG ACGTTCACTG TGGCCCAAAA GATGGCTGAG      60
CCAGAGAAGG CCCCAGCCCT CAGCATCCTG CTGTACGTGC AGGCCTTCCA GGTGGGCATG      120
CCACCCCTTG GGTGCTGCAG GGGCCCCCTG CGCCCCAAGA CACTCCTGCT CACCAGCTCC      180
GAGATCTTCC TCCTGGATGA GGA CTGTGTC CACTACCCAC TGCCCGAGTT TGCCAAAGAG      240
CCGCCGAGA GAGACAGGTA CCGGCTGGAC GATGGCCGCC GCGTCCGGA CCTGGACCGA      300
GTGCTCATGG GCTACCAGAC CTACCCGAG GGCCTCACC TCGTCTTGA TGACGTGCAA      360
GGTCATGACC TCAAGCTCGA G                                     381

```

(2) INFORMATION FOR SEQ ID NO:703:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 327 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:703:

```

GAATTCGGCC TTCATGGCCT AGCTCCACTT TCTCTGAAAA TTTATTCATA TTGTTAATTA      60
AATTGTTTTT TATTATAGAA ATAATATATT GCATGATTG TAAAAATGCA GAGGAACAGA      120
ATGGCACAAA ATTATGTAAC CCTTCTATC TCCCCTTGGT GTACCTCCTT AATCATACTT      180
CTCAGAACCA TTGTCAATAA TTGCTGGGA GTTCTTCTGA TGGTTACCAT CGTGA CTGAT      240
AGATTTATTT CCCAGGTTCA AGCGGTTCCC CTGCCTCAGC CTCCCGAGTA TCTGGGACTA      300
CAGGCATGCA CCACCACTCA GCTCGAG                                     327

```

(2) INFORMATION FOR SEQ ID NO:704:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 299 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:704:

```

GAATTCGGCC TTCATGGCCT TGCCTTTTTT CTTTACCAC TTTACTACAC ACAATTACTG      60
GATTAATCTC TTTAATGCCG AGATCTTTT TCCTTAGTGA CACCTTAATC ACTCTTAGCT      120
TAACATATAT GGTATCCAT TACTGGGTG CCTCTGCCTT TCCAGGATTG GCTGCCACTG      180
CTCCTCCACA TACCCTGTAT TCTAGCCAAA TGAATCACT GCTGTGTCCC AAGCAGATTG      240
TTTATTTCTC TTGGCTGTTG CTCTATATT CTAATGTAC CTGCCCTTCA AAACGAG      299

```

(2) INFORMATION FOR SEQ ID NO:705:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 494 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:705:

```

GAATTCGGCC TTCATGGCCT ACTTGATTG TGGCTTATCT CAAGTTACCA TTTTTCAGTC      60
AAGTCTGTTT GTTGCTTCT TCAGAAATGT TTTTACAAT CTCAAGAAAA AATATGTCCC      120

```

AGAAATTGAG TTTACTGTTG CTGTATTG GACTCATTG GGGATTGATG TTA	180
CTGCACT ATACTTTTCA ACAACCAAGA CATCAAAGCA GTGTCAAGTT ACGTGAGCA	240
ATACTAGACT TAAGCAAAAG ATATGTTAAA GCTCTAGCAG AGGAAATAA GAACACAGT	300
GATGTCGAGA ACGGTGCTTC TATGGCAGGA TATGCGGATC TGAAAAGAAC AATTGCTGT	360
CTTCTGGATG ACATTTTGCA ACGATTGGTG AAGCTGGAGA ACAAAGTTGA CTATATTG	420
TGTGAATGGCT CAGCAGCCAA CACCACCAAT GGTACTAGTG GGAATTTGGT GCCAGTA	480
ACC ACAAATAAAA GAACTAGTCT CGAG	494

(2) INFORMATION FOR SEQ ID NO:706:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 491 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:706:

GAATTCGGCC CTTCATGGCC TACTCCGAG CTCTACTGAC TCCCAAAAGA GCGCCCAAGA	60
AGAAAATGGC CATAAGTGGA GTCCCTGTGC TAGGATTTT CATCATAGCT GTGCTGATGA	120
GCGCTCAGGA ATCATGGGCT ATCAAAGAAG AACATGTGAT CATCCAGGCC GAGTTCTATC	180
TGAATCCTGA CCAATCAGGC GAGTTTATGT TTGACTTGA TGGTGATGAG ATTTTCCATG	240
TGGATATGGC AAAGAAGGAG ACGGTCTGGC GGCTTGAAGA ATTTGGACGA TTTGCCAGCT	300
TTGAGGCTCA AGGTGCATTG GCCAACATAG CTGTGGACAA AGCCAACCTG GAAATCATGA	360
CAAAGCGCTC CAACTATACT CCGATCACCA ATGTACCTCC AGAGGTAAC GTGCTCACGA	420
ACAGCCCTGT GGAAGTGAGA GAGCCCAACG TCCTCATCTG TTTTCATCGAC AAGTTCACCC	480
CACCACTCGA G	491

(2) INFORMATION FOR SEQ ID NO:707:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 242 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:707:

GAATTCGGCC TTCATGGCCT ACCTTATCTT CTTAACCTTT CAAATACTTG CAGATATTTT	60
GCTTGGTGCT TCCCATCTAT TGCAATACCC CTTTAGATAA AGTCAATTCT TATCTAAAAT	120
CAAATTCATT TTATTTGACA ATGTTTACAA ACAACCCAG GACGATAACA ATTACACTCT	180
CAATACTGGC ATCACACCTT CACAATTACA CTAACCCAA CCTAGGCCAT GAAGGCCTCG	240
AG	242

(2) INFORMATION FOR SEQ ID NO:708:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 285 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:708:

```

GAATTGGGCC TTCATGGCCT AGACAGAATT ACTGGGAACC ATTTTCCAAG TAGCCCACCA      60
CAAAGGTTGT ATTTTGTCAA ATTGAAGGAG TCATCTGACT TTCCTTAATC ATAAGCTACA      120
AATATAATAA GCTACATTAA TAGATTTTCT AATATTTATT TAACTTTGAA TTTCTGGAAA      180
AAACCCAACT TGGTAATGAT TTATCATCTG AGCTTTGTTT TTGGCTTTGG TATGCTAATT      240
TTTGGCTTAG GATTTTATA TCTATTCAT GAGTGGCACC TCGAG                        285

```

(2) INFORMATION FOR SEQ ID NO:709:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 319 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:709:

```

GCACGCCATG GGAGAAAAG AAGAAGCCAA AAAACAGAA GACAAGTCTT TGGCAAAGCC      60
TGAAACTGAT AAAGAACAGG ACAGTGAAAT GGAGAAGGGT GGAAGAGAAG ATATGGATAT      120
AAGTAAATCT GCAGAGGAGC CACAGGAAA AGTTGACTTG ACTCTAGATT GGTAACTGA      180
AACCTCTGAA GAGGCAAAAG GAGGAGCAGC ACCAGAAGGA CCGAATGAAG CTGAGGTCAC      240
TTCTGGGAAG CCAGAACAGG AAGTACCAGA TGCTGAGGAA GAAAAATCAG TTTCTGGAAC      300
TGATGTCCAA GATCTCGAG                        319

```

(2) INFORMATION FOR SEQ ID NO:710:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 190 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:710:

```

GAATTGGGCC TTCATGGCCT AGACACATAC AAAGATAAGG CTTTGATAAA ATTCAAGAGT      60
TATTGTATT TTAGGAAAAA AGACTTTGTG GATAAAGCAG AGAAGAGCCT GAAGCAGACT      120
CCCCATAGTG AGATAATATT TTATAAAAT GGTGTCAATC AAGGTGTGGC TTACAAAGAC      180
ATTTCTCGAG                        190

```

(2) INFORMATION FOR SEQ ID NO:711:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 199 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:711:

```

GGATTGAATT CTAGACCTGC CTCGAGTAAG ACCCCTTTTT AAAATGACTC CCACTGTCTA      60
TTCCACAGCC GGTGTGCGGC ATGCTGATTC AATCCCACA ACAGCCCAGG AGGTAGGCGC      120
CGTCCCATCC TCCTTTACAG GAGGGGAAAC TGAGGTTCAG GTGGTCAGAT GGTGAGCTGC      180
CTCCAAGACC ACGCTCGAG                        199

```

(2) INFORMATION FOR SEQ ID NO:712:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 304 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:712:

```

GAATTCGGCC TTCATGGCCT ACCTGTACCT GTTTATACT TGCTTTTGCT TCAGCGTTCT    60
GTGGTTGTCA ACAGATGCCA GTGAGAGCAG GTGCCAGCAG GGAAGACAC AATTGGAGT    120
TGGCCTGAGA TCTGGGGGAG AAAATCACCT CTGGCTTCTT GAAGGAACCC CCTCTCTCCA    180
GTCATGTTGG GCTGCCTGCT GCCAGGACTC TGCCTGCCAT GTCTTTTGGT GGCTAGAAGG    240
GATGTGCATT CAGGCAGACT GCAGCAGGCC CCAGAGCTGC CGGGCTTTTA GAACACTCCT    300
CGAG                                         304

```

(2) INFORMATION FOR SEQ ID NO:713:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 361 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:713:

```

GAATTCGCCC TTCATGGCCT ACCCAATTCA GTTCCAGAG GAGGTGGAAC CTTCTGCAAC    60
CCAACAGGAG GCCCAATTG AGCCTCCAGT TTCTCCTATG GAGCATGAAC TTCCATCAG    120
TGAGCAGCAG CAGCCAGTTC AGCCTTCTGA GTCTTCTAGG GAGGTCGAAT CTTCTCTGAC    180
CCAGCAGGAG ACCCCAGGTC AGCCTCCAGA ACATCATGAA GTCACAGTTT CACCTCCAGG    240
TCACCATCAA ACTCATCATT TAGATTACC CAGTGTCTCT GTGAAGCCTC CAGACGTGCA    300
GCTCACCATA GCAGCAGAGC CTAGTCAGA GGTGGGAACT TCTCTAGTCC GACCCCTCGA    360
G                                         361

```

(2) INFORMATION FOR SEQ ID NO:714:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 316 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:714:

```

GAATTCGGCC TTCATGGCCT ACCGAGATGG AAATAACCTA AGAAAAAGAG GGCATCCAGC    60
TCCATCTCCC ATTTGGCGTC ATGCTGCTCT GGGTCTGGTA ACTCTTTGCC TGATGTTGCT    120
GATTGGGCTG GTGACGTTGG GGATGATGTT TTTGCAGATA TCTAATGACA TTAATCAGA    180
TTCAGAGAAA TTGAGTCAAC TTCAGAAAAC CATCCAACAG CAGCAGGATA ACTTATCCCA    240
GCAACTGGGC AACTCCAACA ACTTGTCCAT GGAGGAGGAA TTTCTCAAGT CACAGATCTC    300
CAGTCTTAAC CTCGAG                                         316

```

(2) INFORMATION FOR SEQ ID NO:715:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 456 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:715:

```

GAATTCGGCC TTCATGGCCT AGGCAATATC AAGGTTTAA ATCTCGGAGA AATGGCTTTC      60
GTTTGCTTGG CTATCGGATG CTTATATACC TTTCTGATAA GCACAACATT TGGCTGTACT      120
TCATCTTCAG ACACCGAGAT AAAAGTTAAC CCTCCTCAGG ATTTTGAGAT AGTGGATCCC      180
GGATACTTAG GTTATCTCTA TTTGCAATGG CAACCCCCAC TGTCTCTGGA TCATTTTAAG      240
GAATGCACAG TGGAAATATGA ACTAAAATAC CGAAACATTG GTAGTGAAAC ATGGAAGACC      300
ATCATTACTA AGAATCTACA TTACAAAGAT GGGTTTGATC TTAACAAGGG CATTGAAGCG      360
AAGATACACA CGCTTTTACC ATGGCAATGC ACAAATGGAT CAGAAGTTCA AAGTTCCTGG      420
GCAGAAACTA CTTATTGGAT ATCACCACAT CTCGAG                                456

```

(2) INFORMATION FOR SEQ ID NO:716:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 290 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:716:

```

GAATTCGGCC TTCATGGCCT AGATCATTCA GTGGCTCACC TAATATCACA GAACAAGTGG      60
TGGAGTCAGA ATCTTTTATC TAAAGGAGAT ATTTTCATCC TTAGATTAAT GTCTCTTCA      120
CAGTCTCATG CTACTTTCCT TTAATAATGAA ATTGCTGTTT TTTTITTAAT TGATTGGCC      180
AATTCATTT GTAACGGAAG AATCAAAATT AGAGCCCGGG TCTCATCCTA CGGTATCTCG      240
TCCTGAACCT CTGGTCTCCC TCAAGATGA CTCAGAAGGA CGGACTCGAG                    290

```

(2) INFORMATION FOR SEQ ID NO:717:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 306 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:717:

```

GAATTCGGCC TTCATGGCCT AAAAAAAAAA GCCTTTTAAA CTGTAGGAA TTAAGAAATA      60
AGAATAACCT ACAAATGCT AGCAAAATTT ATCTCATTTT TTTTCATTGT ATTTTCAGGT      120
TTAACTGAAC TGAATGACAG TCCAGTTCCC CTAGAACTTG AGCGCTGCAA GTCTCCTACC      180
TCAGACCATG TAAATGGACA CTGCACAAGT CCAACTTCTC AGAGTTGCAG TTCTGGAAAA      240
CGTCTTTCTA GTGCCGATGT TTCAAAAGTA AATCGCTGGG GTCCTGGAAG ACCACCAGTT      300
CTCGAG                                306

```

(2) INFORMATION FOR SEQ ID NO:718:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 294 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:718:

```

GAATTCGGCC TTCATGGCCT AATATTTATT AAATGACTTG GTAGATAGAG CAACTGACTG      60
AATATATTAT TTTTtagGAA GAAGAAGAAC ATTTTtGCTT AAATTAAAT TCTTATTtTA      120
TTTCTCTTTC CCCTTTTATC CAGGGTAGGT CCAGGTAAAG CCAAAGGCCT TATCCTTATC      180
TACACTGCTG GGGGACACAA CACAAGAATT TCAAGTTCAA GTATTATTTC TCATTTTGAG      240
TAATTTTGTT CTCATTTTGT TCCAGTTC TCCTCAGAA AAAGATTACT CGAG      294

```

(2) INFORMATION FOR SEQ ID NO:719:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 263 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:719:

```

GAAACAATAG AAACACTGAG AGAAAATTCA GAGAGACAGA TTAAGATACT GGAACAGGAA      60
AATGAACATC TGAATCAAAC AGTGTCTTCC TTAAGGCAGC GGTCCCAGAT AAGTCAGAA      120
GCAAGAGTGA AAGACATTGA AAAAGAAAAC AAAATTCTTC ATGAATCTAT CAAAGAAACA      180
AGTAGCAAGC TAAGCAAGAT TGAATTTGAA AAAAGACAAA TTAAGAAAGA ATTGGAACAT      240
TATAAAGAAA AAGGAAGCTC GAG      263

```

(2) INFORMATION FOR SEQ ID NO:720:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 320 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:720:

```

GAATTCGGCC TTCATGGCCT ACCTGCCCTT CTGCGGTCAC AGCTGCCTGC TGGGTGGGAG      60
TCCGGGGGAA TGGTATGTGT GGTCACCAGA GGGCACTGAG TGGGCTTCAG TGGCATGTGA      120
ATCCTGGCAG AGTCTCGGAT CCCCgATGGG GAGAGGAGAA AGCACAAGCC AAGACAACGA      180
GTGGGGGAAG GAGGCAGGGG CTAAGTGACG GGTGGGGGGT GGGGGTGGGA ACTCCAGTGT      240
ACACATTGAC AGTCTCTATG TTGGCTTCAC CAGCGCTTCT CTGTTTGTCT CGTCCCTGGA      300
TTTCTAACAG TTGCCTCGAG      320

```

(2) INFORMATION FOR SEQ ID NO:721:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 292 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:721:

```
GAATTCGGCC TTCATGGCCT AGTCGGGAGT GTCTTAAGCT TTTCATTIAA CCTAAAGTAC    60
AGAGTCTGCT CTGTAGAAAT ATGTCATTAA GAAAATATTT GAGTCCCAGC TCCTCCTTGT    120
TGTGTAATGT CTGATAATT CACTCATTAA ATTACCCAGA CAGACCATAA AGTCCTCTCA    180
GTTTGCATCA CCTGAAAGTC AGTCAGCCTG GGCTGTGAGG ATTGTGAGGT AGAACTCACT    240
GTGGAAGGAC GGCATTAGGG AAGACTTTAG GAAAATGGAG CGGAACCTCG AG            292
```

(2) INFORMATION FOR SEQ ID NO:722:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 371 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:722:

```
CTCGAGACCT GTGTGCGCAG GCAACGGGGA AACTGGAAAT GCGTTGACAA ACTGACGCAA    60
AACTGGGCCC AACAGCCACA AGGCACTGGT CGTTTTCAC TGGGCAAAGT TCAGTCGCAT    120
TTCTTTCTGT TCTCTTCTT TCTTTCTTTT CTTTTTCTC TTTCTTCTT TCTTTCTTTC    180
TTTCTTTTTT CTTTCTCTCT CTCCTTCTGT CTGTCTCTCT CTTTCTTTCC TTCCTTCTT    240
CCTTCCTTCT TTCTTTCCTT CCTTTCCTTT CTTTCTTTT TTTTCTTTT AAGAGACGGA    300
GTCTCGCTCT GTTACCCAGG CCGGAGTGCA ATGGCACAAT CTCGGCTCAC TAGGCCATGA    360
AGGCCGAATT C                    371
```

(2) INFORMATION FOR SEQ ID NO:723:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 266 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:723:

```
GAATTCGGCC TTCATGGCCT AGTTCCTTGG TGGTTTGAAA GTTAGAGAGA TCCTGATAAG    60
CATAATGACC AACATAGAAG AGATTAAGTA CCTTTACTCA TAAATGTGAG TTCACAGACT    120
TCAGGTCTAA ATTCGTAAAC ATATTTAAGA TGTATATGGC TTAAAGTGCT GGTAGTTTTG    180
ATTAGAATCC ATAGGTTTCT AGTCACTGCT CTTTTCATTA TTTGAGTTTT TATGTATTTT    240
TTAACTAGAA ATAAGAGGGT CTCGAG                    266
```

(2) INFORMATION FOR SEQ ID NO:724:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 480 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:724:

```

GAATTCGGCT TCATGGCCTA GAAAGTTTTT CAAAAATTCT TCAATTGTCT CTGTTTGATG      50
CAACTTAATT TTTTGCTGAG AGAGACCTTA AATGTAATTA GTATTGTATA ATTAGCCTGA      120
TTAATCTGAC CTGTACATCA CGAGTCACTT GTCTTTAGCC CAAGAGGAAT GCTTCCCTTC      180
TGATTTGAGG CAGTGGCCCA TCATTGCTTC TAGCAACCTT CCTACTTACT AGATGACCTT      240
GAGTCAAGGT TTCTGTATAT ATGATTTTCTG ATTTGTCCCC TAGAACTGAA AAAGGGTAGG      300
AGAGGCAAAG ATAGGAAAAA TATTTTTTAA AAATTTTTAA GTATTTTATT TTTATTGGGA      360
AAATATTTAT TGTAAGTCTT CCATTTGTTA TCCTTCTGCC ACTAGCATTA CGTAAAAAGT      420
AAAAAGAGCT TTACATCAA AAGCACAATG AAACCTTTGTA TCCTTAAGTC CGTACTCGAG      480

```

(2) INFORMATION FOR SEQ ID NO:725:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 438 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:725:

```

GAATTCGGCC TTCATGGCCT AGTCGGAGGT GTAGGAGGGG CCGTGGAGGT CCAGGTGACT      60
GCTTAGAAAA CTGCACAGCA TCTGATGAAA TTAGCGAATA AGAACATCAA CCATGTCTTA      120
CACTCCAGGA GTTGGTGGTG ACCCCGCCCA GTTGGCCCAAG AGGATCTCTT CTAACATCCA      180
GAAGATCACA CAGTGTCTG TGGAAATACA AAGAACTCTG AATCAACTTG GAACACCTCA      240
AGATTACCTT GAATTGAGGC AACAGTTGCA ACAGAAGCAG CAGTATACTA ACCAGCTTGC      300
CAAAGAAACA GATAAGTACA TTAAGAGTT TGGATCTCTG CCCACCACCC CCACTGAACA      360
GCGTCAAAGG AAAATACAGA AGGATCGCTT AGTGGCAGAG TTCACAACAT CACTGACAAA      420
CTTCCGCAAG GACTCGAG

```

(2) INFORMATION FOR SEQ ID NO:726:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 416 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:726:

```

GAATTCGGCC TTCATGGCCT AGCTACCTAT CTACAAAAAC TCCTGGATCC TTTATTACGA      60
ATTGTGATCA CATCCTCTGA TTGGCAACAT GTTAGCTTTG AAGTGGATCC TACCAGGTTT      120
GTCATCTTTT CACATAGAAC CGCTGTTTTT TGTTTTTTTT TTTGTITGT TIGTTTTACT      180
AACTATGCAT GAAGCAAGGC ACCTTCTCCC CTGATCATT AAAATTAGTT TTTAATTATA      240
AAAGTTATAT ACAAATACAC GTTCTTTTAA TGATATCTGT AATTTTTTTT TAAGGTATCC      300
TTTTATTGTC CTTAGATCCA GGGACAAACT AGAGAAAGGT GTCTTTGACT TCCACCTCCA      360
GAGACTGTTA CTAGTTAAGT CTGTTCCCTT GTCCTTTTTT CATGCACGCG CTCGAG      416

```

(2) INFORMATION FOR SEQ ID NO:727:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 437 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:727:

GAATTCGGCC	TTCATGGCCT	AAGGAGGTCC	ATGAGGAAGT	GTCCCAGCCT	GTCAGTGCAT	60
CTCATGAGTT	CGCTGAGTGA	TCAGCAGACA	GTTCCAGGAA	GTGAACAAGT	CCAAGAGGAC	120
TTCTGATTAG	TCCACAGTCT	CCTCTATAGG	CTCAGTAGAT	GAAGGCGTTT	CTGAGGGCTT	180
GCCTACACTT	CAAAGCACGT	CTAGCACTAA	TGCTCCTCCG	GATGATGATG	ATCGATTGGA	240
AAATGTTTCA	TATCCCTACC	AACTCTACAT	TGCTCCTTCC	ACCAGCAGTA	CAGAGCGACC	300
AAGTCCAAAT	GGTCCCGACA	GACCTTTTCA	GTGTCCAACC	TGCGGGGTGC	GATTCAACCG	360
TATTCAGAAC	CTAAAGCAGC	ACATGCTCAT	CCACTCAGGA	ATTAAACCAT	TTCAGTGTGA	420
CCGCTGTGGG	TCTCGAG					437

(2) INFORMATION FOR SEQ ID NO:728:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 451 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:728:

GAATTCGGCC	TTCATGGCCT	AGATCACTGC	CCTTTCAATA	ACACTCTTGC	CTCTAGAATC	60
ATATGTTCAA	AGTATGAATA	CACACCTAGC	ACATAGTAGG	TGCTCAAATA	TTAATTTCTT	120
CCTTGCCTTC	CTTATCTACC	CTGTGCTCTC	CATTTCCCGC	TATGATTCCA	ACCCAATATA	180
GCAAATGACA	TTTACATGTT	ATGAAAACAT	CTATTGGGTA	AAATCAGATC	TTGGATAAAG	240
AAATCTGAC	TTTTATATAA	GCTTTTGGTA	GACAGAAAAA	ACAGAAAGGT	ATTCGTTGGT	300
AGAACATTTT	TAAGTTCAGG	AAAGAAAGCT	GGAATAATAC	TACGTAACCT	TGTCCAGGTT	360
ACTTTGACTG	AAACACGTTT	TTGGTGGATT	TCTTTCTCTC	AAAGAACTCT	CTAAATGCAA	420
CTCCTTGCTG	GATTCCTCAC	CCGATCTCGA	G			451

(2) INFORMATION FOR SEQ ID NO:729:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 319 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:729:

GAATTCACC	ATTAAAGATA	ATTATATTA	GTGTTTCTAT	AACTTCTAAA	ACATCTTTTG	60
ATAAGGATAA	TAATCTCATT	GTCATTCTGT	ACTGATATTT	GGATATAATC	CTAGCAGGGC	120
ATAGCTCTGA	TTAAGAACAA	TTGAACCAT	CAATTTTTTA	TTAGCCTCTA	TTTCTACTAG	180
CCAGGATATT	TTATGAAC	TTTTTAGTTT	CAAAGCAAGT	TTTTCTTTT	CAATAGAAAG	240
TGTTATATTA	GTAACAATT	TTGTCTTCTG	CCAAGACCAG	CTCAGTCGGG	AAGATCTTAA	300
CCCAGTGGCA	AACTCGAG					319

(2) INFORMATION FOR SEQ ID NO:730:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 353 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:730:

```

GAATTCGGCC TTCATGGCCT AGGGAAGAAT AAAGAACAAA ACCCAAAACT TTGGACCTTA      60
AAAAACCCAG GCTGGCATT TAGTAGCAAT TGGGTGTGTT CGGTTTGGAA TATATTGTGA      120
TATACATGCC TCCATGTGCT TTGGCCTTCT GGTATCTTCA CCAGATGCTG CCTTTTITTT      180
TTTTTTTAAC AAGTTCCTGT TTCACITTTT CAGCTAGCTG CTGGGTATCT CCAACAAAAT      240
ATCTCATAGA TCTCCCACT GTAATGTATT CAAGCCAAAA ATCAGCTCTG CCCATTCTCC      300
ATCCCAAAGC CCTCCTCTT GTTACCAGA CAACCTTAAC CAAACCACTC GAG              353

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(2) INFORMATION FOR SEQ ID NO:731:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 385 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:731:

```

GAATTCGGCC TTCATGGCCT AGAGGAGGAA GGCCTTCGTA AAGGTTGCAT CTCCGTCCCT      60
TCGCTCCCGG GGACCCCGCG GAAAAAATAA AATCCAACAC CCAGGCCCGG CGGCTAGCCC      120
CTTCCCACAG GCTCTCTCG CTGATTTTG TCACCGTTAT GTGGGAAGCG AATCCATGTA      180
TTTGCATGCC CGAGTCTTTG AGCCGTGCTA TACCAGTTTG TCCAGATTGT TTATACTAGC      240
AATGCAGTTT ACGGTGAAGA CCTGCCTTCC CTCTGGGAAT CTGGAGCTTC AGTAACAGGA      300
GATGTTTCAC AAAGCAGAAG AATTATTTT TAAACAACA AACATGAAG TGGATGACAT      360
GGACACGTCA GATACCCAGC TCGAG              385

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(2) INFORMATION FOR SEQ ID NO:732:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 262 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:732:

```

GAATTCGGCC TTCATGGCCT ACTCCGTCTC CAAAAAATAA AAAAAATAGT GTTCAGCAAG      60
GTTGAAGCAT AAAAGGTTAA TAGCCAGAAT CATTTATCAA TTGTATTCT ATACATCTAC      120
AAGACACAAT CTGAAAATGA AATTAGAGAA ACAATTTTAC TGGGCAACAA GAGCAAACT      180
TCATCTCAA ATAATAATA TAATAATAAT AATCATCATC ATCATCATCA TCTACAATGT      240
CATTTCCCAT CCAAGTCTCG AG              262

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(2) INFORMATION FOR SEQ ID NO:733:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 503 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:733:

GAATTCGGCC	TTCATGGCCT	AGACCTGCCT	CGAGCTCCTG	GCCTCGGGCA	CTCTACCCGC	60
TTCAGCCTCC	CAAAGTGCTG	CGACTGATTA	CAAGTATGAG	CCACTACGCC	TGACCATAAC	120
ATGTAAAATT	ATGGCAAATG	GTAATTCACA	GCTCAATTCT	AAAATGTGAT	GAAATTTAAA	180
TCAGAAAGGC	CAAATGAGTC	ACTTTTCTT	AACACTAAGA	ATTATAAACC	TTTAAATTTC	240
TTTTGTACTG	TAATTTTITA	TGTGACATGT	ATATGCTTTT	TAATATGTGT	GATAGGATGA	300
GGGGCAGGAG	AGGGGGCTCT	AGACATGAGG	GTGCCTGGGG	CCTCTGTAGA	CCTTCAGATG	360
GCCCTGGGTG	TTATAGCAAG	AGCTGGTCTA	CATCTAATAC	TACTGCAGGT	GCTGTCATGA	420
ATTCITTGTA	TAATTCITTTG	TATATTAAAT	GACATTATTC	TATGTATAAT	GTCATTTAAT	480
ACTTATAACC	TACTTTCCTC	GAG				503

(2) INFORMATION FOR SEQ ID NO:734:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 431 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:734:

GAATTCGGCC	TTCATGGCNT	AATGGATTCA	TTTTTTTTC	GCAGCATGGC	ATAGTGGATT	60
ATGAAATCAA	AATTAACACT	ATGTGGAGTC	NTACATTGAA	ATCCCCCTTC	AACAAAATAG	120
TATACATATG	GTATTTTAA	ATTATTAAAC	CCCTCCGAAC	ACCAATTGTG	ACACGAATAA	180
AACCTGACAC	AACAGGATTT	TGTGGGGCGT	GAGTAACACA	ACATATACAA	AAGCACCTTA	240
TAAAGTGTTT	TATATAGCAA	CTTCTCTCTC	AGTTTGAACG	GGTCTCAGGA	TAAATTAGCA	300
AATATGAATT	CTAACCTTTG	TACTTACATT	TTAATTCTGC	TAAGTGTGTG	AACCCCAATT	360
TAGCAATTAA	AATATTATT	TCCAGAATGT	TTTGACCCTG	AGCATATTTT	TAAAAAGCAC	420
AGTAGCTCGA	G					431

(2) INFORMATION FOR SEQ ID NO:735:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 259 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:735:

AAAAGTGACT	GAAAGTTTGC	TAGTGTTTTT	AGTACCGATA	TTTACTGGTA	GTAAATATAT	60
ACTAAATCCA	GTGAAATATG	ACTTCTCTAA	CTGAGCTTGA	CATATCCTGG	TTATATCTCA	120
TGGCAGCTGA	AAACTAGAAA	TGACTTATTT	TTACCTTGTA	GCCACAGCAC	ACTTGAGGTT	180
ATTCTTAGGT	TTTTGTTAGA	GACAAAGCTG	GTTAGTGACT	CCTGGATTAA	GAATTATGAG	240
TGATCCCAT	ACCCTCGAG					259

(2) INFORMATION FOR SEQ ID NO:736:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 443 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:736:

```

GAATTCGGCC TTCATGGCCT AAAGGATATT GGCATGTTCC TCTTCTCATC AATATCCTAA      60
AAGACATTTA TTTTTCACAC ACTCCTTGGG AAAAATTAAC TTTTTCAC TGAAAATATT      120
TCCTTTTGTG GTTATCTTGA TCTCAGATTA TTTGTGAAA GAATTTTACT GTACTTAGTT      180
CAAAAGAGTA GAAAGAATGA TTTACTATTG CAGACATATG TAGGGTAAAA TCATAATTTA      240
TTTAAACTGA CTGTACAACA CCATTTAGAG TTGATATTGA CATAAATGTT ATTAGCCTAC      300
TAATTTGGAA CTGCATTTCT CAACAATGCT GGCAAGCATC TTCCGTACTT AGCATACCAA      360
GTTGTAGGGG AGAGACTGTG TATATATTTT TAAAAGCAA TCCAATGGAT TTGTTTTTGT      420
TCATATTTTG GAAACAACTC GAG                                         443

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(2) INFORMATION FOR SEQ ID NO:737:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 482 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:737:

```

GAATTCGGCT TCATGGCCTA CAAAAGATGG CCCTAAGCCT GGCCTCTAGC TTTCACCTCGT      60
GGTGAATATT TCAGACCTAA AGATCCAGAT AGTATCTCTG TTCATATGTG AATAAGTTGA      120
AGATTGTGGG GCTACTTTTT CTCATAGCAC TTTATTTTGA ATGTTGTTAG TTTGTGCTGA      180
GAATGGTCGT CCGTATTTGA ACCAATTATT TATTTTAAAA TATATTAAAG CTACATTTTT      240
GTTTTGAAAA ATTGCCATAA ATTTGGTGCC ACTTCTTTTT ATTTATTTGA CTGAGTTAAT      300
ATTATTGTAT TAACATTITA AGTATATGGT GTTTACATTC TTATTCTTTT TGACATTTTG      360
GAAATAATCA TAACTTGCTT TTCCAAAATA ACCATTTTCT TGATGGAACT CTTCCTAGAG      420
TTTTTACCAA ATAGCTAACT TTAGTAGTAA AACCTCATTG TGTATCCATT CCCCACCTCG      480
AG

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(2) INFORMATION FOR SEQ ID NO:738:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 474 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:738:

```

GAATTCGGCC TTCATGGCCT AGATTGTCAG TTTATCTTAG ATGATGAGGA AGCAGTACCA      60
AGAAAACACT TGGGGGTGTA TACAACAGGC ACATGAGCCC TTAAACTCC TTCTGTTTTT      120
TTTTCTTTTT TTTTCTCTT AGGTAGATTA GTGCATTAA AGCCTGAAGT TAATTTGACC      180
TAAATTTTTT ATAAGTCTTT GCAGAAAGTT CACTTGTTC CTGAAATCAT CTCCTTGATA      240
ATTTTTTATG TAACAGTTGT TCATATTGTA GGAATGATAT ATATGTCATC CTGTTACACG      300
TGTCAGGCAC TTCAAAAAGA CTCCAAGAGA ACATGCCTGA GAAAGATAAC TCCCAATTAA      360
AAATGATTCA GTCCCTCACT TGCAATATTC AGGATAAATG TGTGAAACA TTAGGCTACC      420
AGATAAATAA AAGGTAGTTA TTTCTAGGG TGA CTGCA AGATATTTCT CGAG      474

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(2) INFORMATION FOR SEQ ID NO:739:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 211 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:739:

GAATTCGGCC TTCATGGCCT AGCCTTTGAG ATCAATACCT GTGAAAAGTA GGGAAAGAAA	60
GCAGATGAGG CATAGGGAAA AGGTGGACTG CCACAGGCAA CCCAGCGAAC CTCACCAGCA	120
GCTCTGGAGC TAAATAGCT CTCAGAATT GTCCAGAGTT GGGCTGAGGA GGCCAGAATT	180
TTATTTGTGT TCCCACGATG ACGACTTCGA G	211

(2) INFORMATION FOR SEQ ID NO:740:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 377 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:740:

GAATTCGGCC TTCATGGCCT AAATACCTTA ATGGTGGTAG AGCCTTTACC TGTAGCTTGA	60
AAGGGGAAAG ATTGGAGGTA AGAGAGAAAA TGAAAGAACA CCTCTGGGTC CTTCTGTCCA	120
GTTTTTCAGCA CTAGTCTTAC TCAGCTATCC ATTATAGTTT TGCCCTTAAG AAGTCATGAT	180
TAACCTATGA AAAAATTATT TGGGGACAGG AGTGTGATAC CTTCTTTGGT TTTTTTTTGC	240
AGCCCTCAAA TCCTATCTTC CTGCCCCACA ATGTGAGCAG CTACCCCTGA TACTCCTTTT	300
CTTTAATGAT TTAACATCA ACTTGATAAA TAACTTATAG GTGATAGTGA TAATTCCTGA	360
TTCCAAGAAT GCTCGAG	377

(2) INFORMATION FOR SEQ ID NO:741:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 343 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:741:

GAATTCGGCC TTCATGGCCT AAGGCGTTTG GGGTTTCCTA GTTGTGCTGC TGCTCTTGCC	60
TAGGGGAATCT GCTCTTGCTT TGGCCTCTTT CCTTGGGGCA AGAGTGAGGG GGACAGGGAG	120
CTTCAAGTCA GCCCTCCATG TTGAAGTTTG GTAGAAGCTC TGCCACACCC TTGGACTGGA	180
ACCCAGCCAT GCCAATCCCC ATGATCACCA ATCCGAACCC CTTGAAGTAG AATTTTCATA	240
CCCTACTGAC TAACCACCTT CTTAGCCAGG CCATAGCCAT TCAGCAGTGC CTCCTTCCTC	300
TGGGTAGACA AACAGCCTTG AACAGAAAGG TGGAACACTC GAG	343

(2) INFORMATION FOR SEQ ID NO:742:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 259 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:742:

GAATTCGGCC TTCTGGCCTA GAGTCCTTGT TGTCTTTGTC AAAGGTTGCT CATCACCTCT	60
CCCCTCCCTC TGGCTCTTTT CCGTGGTGAT GCATAGTTCA ATGCGCCCAG GAAGCTTCAT	120
GATGAGGCCG TCACCCAAAC TAGCAGCCCT CTTTCCTTC TTTCTTTGCC AAGTGTCTCG	180
GACATCAGCT CTTCTCAGT CTTTGACTCT AAATAAGAA CTGAATTTC ACCATTCAAC	240
TGAAATCCCT CTAACCTCG	259

(2) INFORMATION FOR SEQ ID NO:743:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 450 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:743:

GAATTCGGCC TTCATGGCCT ACACGTCGC CATTGCCAGA AAGAGCGATT TATGGCTTTG	60
TTCTTTTCTT AAGCTCCCAA TTTGGCTTCA TACTTTACCT CGTGTGGGCC TTTATTCTCG	120
AATCTTGGCT AAACCTCTTA GGTTTAACCT ATTGGCCTCA AAAATATTGG GCAGTTGCAT	180
TACCTGTCTA CCTCCTTATT GCTATAGTAA TTGGCTACGT GCTCTTGTTC GGGATTAAAC	240
TGATGAGTAC CTCTCCACTC GACTCCATCC ATACAATCAC AGATAACTAT GCAAAAAATC	300
AACAGCAGAA GAAATACCAA GAGGAGGCCA TTCCAGCCTT AAGAGATATT TCTATTAGTG	360
AAGTAAACCA AATGTTCTTT CTTGCAGCCA AAGAACTTTA CACCAAAAAAC TGAAGTGTGT	420
GTAACCATAG TAACACCAAG CACACTCGAG	450

(2) INFORMATION FOR SEQ ID NO:744:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 243 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:744:

GAATTCGGCC TTCATGGCCT AAATCTTCAG GGTCTTAACT TAGTTTTTGA TCCCTAAAT	60
TAGTGCTGCA TATGTAGACT CAGAAACCTC ACGTAAAAAT TTAAATTGGC CTCAGGTTGG	120
CAATGTTCCA AGGCAATGGT TAGAAGCAAA TTCAGATTCT CCAAGGCCTC AAATAATTCC	180
TACAGATAAA ATCCAAGGA AATTCAGCAG TGCTAGTCA AAAATCCACA AATCAGGCTC	240
GAG	243

(2) INFORMATION FOR SEQ ID NO:745:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 236 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:745:

AAGCGAGGCC	CTGGGGGACA	ACGTGAAACA	ATACTGGGCT	AACCTAAAGC	TGTGGTTCAA	60
GCAGAAGATC	AGCAAAGAGG	AGTTTGACCT	TGAAGCTCAT	AGACTTCTCA	CACAGGATAA	120
TGTCCATTCT	CACAATGATT	TCCTCCTGGC	CATTCTCACG	CGTTGTCAGA	TTTTGGTTTC	180
TACACCAGAT	GGTGCTGGAT	CTTGCCCTTG	GCCAGGGGGT	TCCGCAGCTT	CTCGAG	236

(2) INFORMATION FOR SEQ ID NO:746:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 215 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:746:

GAATTCTAGA	CCTGCCTCGA	GCCTGCAGAC	ATCTCCTCCT	TCTTTGTGGT	TCTGGGAGCC	60
ATTCTGTGCC	TCTAAGGTCC	TCITTCITTT	TTCTCACCAA	TACACATATT	TTCTGTCCTT	120
CGCAATTCTA	TTAAACCTCA	CATTTGATGG	TGTTTTTCTT	AAAATTCCTT	TACTTGGTTC	180
CTGCATTCTT	CATTCCTTCC	CAGCACAAATC	TCGAG			215

(2) INFORMATION FOR SEQ ID NO:747:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 233 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:747:

GAATTCGGCC	TTCATGGCCT	AGAAGAAAAC	CCATCAGATA	TTATAATAAG	ACAATAACTC	60
AATTTAGAC	TTGTAAACAA	AGGTGACATT	AATCTATTGA	AATGTGGGAA	AATAGTCAAC	120
CTGTATCCTT	CTCATACCAT	AAATCAGCAT	GTTTGATCAC	TGGAAGCTTC	ATTTTGATGA	180
TTAGCAGTCA	TGTATTGAGG	CTAAATGATA	TGTTTGTCGC	ACAGCATCTC	GAG	233

(2) INFORMATION FOR SEQ ID NO:748:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 270 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:748:

GAATTCGCCT	TCATGGCCTA	CACAGGAGAA	AAACCCATATG	AATGTAGTGA	ATGTGGGAAA	60
ACTTTTGTTT	AGAAGTCCAC	CCTCAGAGAT	CATCACAGAA	TTACACAGG	GGAGAAATCC	120
TTTCAATGCA	ATCAATGTGG	AAAAACATTT	GGCCAGAAGT	CAACCTCAG	AATACATCAG	180

AGAACTCACA CTGGGGAGAA AACTTACCAG TGTAATGAAT GTGAAAAATC CTTCTGGCGA 240
AAAGATCATC TCATTCAACA TCAACTCGAG 270

(2) INFORMATION FOR SEQ ID NO:749:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 309 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:749:

GAATTCTAGT TTAATTACAT ATACCTCTCT GTTGGCTTAG TAGTAATAAA AATATTTTCT 60
GTAGGTGTAG AATATCCTTA CAGTCCAAA GGAGAGTACA TGTCACAAT TAAAGTTTGA 120
AATTGTGCT TTGATAACAG CATGTTTAT TCATTCATT TTATAATAAT ATTACTGAGC 180
CTGTATCATA TAGTGATGAA CTTTTCAGCT GTTTTGAGGG TTTGTGTTAG CCACATTAC 240
ATTTGTATAA CCTGTGTTT TTTTATT TTTTATT TCATTTTGA TTCAGGGGGT 300
CGGCTCGAG 309

(2) INFORMATION FOR SEQ ID NO:750:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 328 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:750:

GAATTCGGCC TTCATGGCCT AAGCTCTTT AGTGAAGGAT TGTTTTAAAT AAGAGCTCTC 60
AGTTCAAGAC AACTACTGTT AGGAGCTTAA ATCGGAACCA CAATCAGCAT ATAAAGGTCC 120
TAATCCTGAC CTTAATCCCT TTGGAATATT GGTTTTATAA ATCATCAATC AACAGTGTT 180
CACTATGAAA GCATATTCTG TCTTCTTCT TTCAATGATT CCTTCACTGC TGGTGCTTAA 240
TGCTTTCTCT TCCTCTTCTG CCATTCTCT TTCCATGAAT TATAATTGCC TTTTGAATT 300
AGAAATTAAA ACCACTCCAC AGCTCGAG 328

(2) INFORMATION FOR SEQ ID NO:751:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 239 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:751:

GAATTCGGCC TTCATGGCCT AATAAGGAAG AAATTGTCTC ACTTTATTGA ATAGTTGATT 60
TAAATTTTCT GGTATTTAGA GGTAATATAG TATAAGTTT TTGTATATTT ATCTAAGATT 120
TTCCTTTTGA AAATTTTCTT CCCTTTTCAT ATTATTTTCA TTAAACGATT TTCCTTTAAA 180
ATTGTGTACT AACAAGAACT ATCTAATATG CAATGAGATT TTTGCAGGGC ATTCTCGAG 239

(2) INFORMATION FOR SEQ ID NO:752:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 231 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:752:

```
GAATTCGGCC TTCATGGCCT AAGGAAAGTA CTTTAGACAA AAAAAAAAAA AAAAGTGAAA      60
TTAATTCCTG GGGCAATGAA AGGAAATGTC ATTGGCAGTT TTACCTTTAT TCTGCTAATG      120
GCTATTGTGT GTCTGTTTAC CTGGAGGCAC TTGGAAGTTG TGGCACAGAA TGCTGTATGT      180
ACAGGATATC ATCTACATGG GAATAATTGT TGTAACACC CCAAACCTCGA G                231
```

(2) INFORMATION FOR SEQ ID NO:753:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 308 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:753:

```
GAATTCGGCC TTCATGGCCT ACAATAGAGC TCTTAACTT ATTAACTGA AATTTGTAT      60
CTTTTACCA ACATTTCCCC AACTCCCCTT TACCCCACT ACTCCAGCCA CTGATAACCA      120
CCATTCTGTT CTCTATTCT TTTTCTTTT TTTTTTTTT TTTTAAAGAG ATGGCGTCTT      180
GCTGTGTCGC CCAGGCTGAA GGGCAGTGGC ATGATCTCGG CTTACTGCAA CCTCTGCCTC      240
CCCGGTTTAA GCAATTCTCT ACCTCAGCCT CCGAGTAGC TGGGATTACA AGCACCCATC      300
CACTCGAG                                     308
```

(2) INFORMATION FOR SEQ ID NO:754:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 124 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:754:

```
GAATTCTAGA CCTGCCTCGA GCCCTTTGTG GTTTTAAAGA AAAAAATTCT GTGCAGATCT      60
GTTCTCTCTC CTGCTCCTTC CCTTTTCTCT ACATACAGTG CTCATTGGAG GCTCCCCACT      120
CGAG                                     124
```

(2) INFORMATION FOR SEQ ID NO:755:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 369 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:755:

GAATTCGGCC	TTCATGGCCT	AATCGGTGTC	TTTGGTAAAA	ATTCTATGAG	GATGACATAT	60
TCCATCATGT	TATTGTTTTT	ACATTTCCTT	TTGCTCAGTC	TCCAATGCAA	GCACAGCTTG	120
TGGTATAACC	TATTGTTTTT	CCATTCTAAT	AACCTTCTCA	TCGATCTTCG	TGTTCTTTTA	180
CTGAGGCAAA	TAACTGGCCA	CATACTGCAA	CCTAATGTGC	AGCAGCAACA	AAGGCAGCCA	240
CAAAGTAGCC	AACGTACATT	AACAGGAAGG	TTCTTCTTAA	GACAACTGTT	AACTCTGTTG	300
ATGCTGGCTT	TAAATTCTTC	AGGAGCTACT	TTTTCAGTTA	ATGAAGAAGG	GAATTCAGAT	360
TCAAATTTG						369

(2) INFORMATION FOR SEQ ID NO:756:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 394 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:756:

GAATTCGGCC	TTCATGGCCT	ACCGGCGAGG	AATAGGAATC	ATGGCGGCTG	CGCTGTTCTG	60
GCTGCTGGGA	TTCGCGCTGC	TGGGCACCCA	CGGAGCCTCC	GGGGCTGCGG	GCACAGTCTT	120
CACTACCGTA	GAAGACCTTG	GCTCCAAGAT	ACTCCTCACC	TGCTCCTTGA	ATGACAGCGC	180
CACAGAGGTC	ACAGGGCACC	GCTGGCTGAA	GGGGGGCGTG	GTGCTGAAGG	AGGATGCGCT	240
GCCCGGCCAG	AAAACGGAGT	TCAAGGTGGA	CTCGGACGAC	CAGTGGGGAG	AGTACTCCTG	300
CGTCTTCCTC	CCCGAGCCCA	TGGGCACGGC	CAACATCCAG	CTCCACGGGC	CTCCAGAGT	360
GAAGGCTGTG	AAGTCGTCAG	AACGCATCCT	CGAG			394

(2) INFORMATION FOR SEQ ID NO:757:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 497 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:757:

GAATTCGGCC	TTCATGGCCT	ACTGATGTTG	AAGACGACAC	CACGGCTTTG	ATGGAATATC	60
AGATATTGAA	AATGTCTCTC	TGCCGTGTCA	TCCTTCTGTT	TCTCACACCT	GGTATTTTAT	120
GCATTTGTCC	TCTCCAATGT	ATATGCACAG	AGAGGCACAG	GCATGTGGAC	TGTTTCAGGCA	180
GAAACTGTGC	TACATTACCA	TCTGGACTGC	AAGAGAATAT	TATACATTTA	AACCTGTCTT	240
ATAACCACTT	TACTGATCTG	CATAACCAGT	TAACCCAATA	TACCAATCTG	AGGACCCCTGG	300
ACATTTCAAA	CAACAGGCTT	GAAAGCCTGC	CTGCTCACTT	ACCTCGGTCT	CTGTGGAACA	360
TGTCTGCTGC	TAACAACAAC	ATTAAACTTC	TTGACAAATC	TGATACTGCT	TATCAGTGGA	420
ATCTTAAATA	TCTGGATGTT	TCTAAGAACA	TGCTGGAAAA	GGTTGTCCTC	ATTAAAAATA	480
CACTAAGAAG	TCTCGAG					497

(2) INFORMATION FOR SEQ ID NO:758:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 242 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:758:

GAATTCGGCC	TTCATGGCCT	AACCAAATCA	ACAACAACCT	ATTTAGCTGT	TCCCCAACCT	60
TTTCTCCGA	CCCCCTAACA	ACCCCCTCC	TAATACTAAC	TACCTGACTC	CTACCCCTCA	120
CAATCATGGC	AAGCCAACGC	CACTTATCCA	GTGAACCACT	ATCACGAAAA	AAACTCTACC	180
TCTCTATACT	AATCTCCCTA	CAAATCTCCT	TAATTATAAC	ATTCACAGCC	ACAAAACCTG	240
AG						242

(2) INFORMATION FOR SEQ ID NO:759:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 221 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:759:

GAATTCGGCC	TTCATAGCCT	ACCTAAATTA	ATAATAATGT	ATAGTTCAGA	ATTGCTAAGA	60
GTACTTTTTT	TTTTTTTTTT	TNGAGACAGG	TTCTCGCTCT	GCCCTCCAGC	CTGGTGACAG	120
AGCAAGATTC	CATCTCAAAA	AAGAAAAAAA	ACACACAGCT	AATAGAATTG	CCATTGTTTT	180
TCATAATAGA	ATCTAGCTGC	TTACTCCAAC	CTCACCTCGA	G		221

(2) INFORMATION FOR SEQ ID NO:760:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 555 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:760:

GAATTCGGCC	TTCATGGCCT	AAAATCAAAG	ACTTTGCCAA	TACCATTTCCT	GGCCATGGAG	60
GCATCATGGA	TCGCTTTGAC	TGCCAGTATC	TGATGGCCAC	CTTGTCAAT	GTATACATCG	120
CCAGTTTTAT	CAGAGGCCCT	AACCAAGCA	AACTGATTCA	GCAGTTCCTG	ACTTTACGGC	180
CAGATCAGCA	GCTCCACATC	TTCAACACGC	TGCGGTCTCA	TCTGATCGAC	AAAGGGATGC	240
TGACATCCAC	CACAGAGGAC	GAGTAGGGGC	CACCCAGGGC	CAGGAGAACA	GGAACAGAAC	300
TGAGCAGGGG	CAGGTCTCCA	AGGCAAGCCC	AGCTGGTGTG	ACTTAGACAA	TGACGAGGCT	360
TCAACTCACT	GTCTTTTTTT	TTTTTTTTTG	GAGGGTATTT	TTTATTTGTG	GGTTCAAAAA	420
ATCTGTATAT	ACAGTCTATG	TGTTTAGAAT	TTGTGTTGTA	AGTAAACTAC	AGCTTTGAGT	480
TGGAAAGAAG	TCACGGGTTG	TAAAACCAAT	TGGATTTTTT	TAAAACAAAA	GTATTAATAA	540
TCTGGAAGAC	TCGAG					555

(2) INFORMATION FOR SEQ ID NO:761:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 324 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:761:

```

GGCCGATCAG GTTATTTTTT GAAAGTTTTA CTTACAGAGC ATATAAATTA CCCTTGGTTA    60
TTCTCAGCTG TGATTGAGTT CTGTGAAAGC ATAGTACCCT AGTACCCTGG GATATCTCTA    120
CATGTGAAAT TATTCAAATG TCTCCCTTAC TTTTTTTTTT TTTTTTTTTG AGACAGGCTC    180
TGTTGCCCAT GCTGCAGTGC AGTGGCACAA CTATGGCTCA TCTCAGCCTC GACCTCCTGG    240
GCTCAAGCGA TCCTCCCACC TCAGCCCCCC AGGCAGCTGG GACCACAGGC ACACACCACC    300
ATGTCCAGCC AATTCCTGTA TTTT                                     324

```

(2) INFORMATION FOR SEQ ID NO:762:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 333 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:762:

```

GAATTCGGCC TTCATGGCCT AGTGCCGGGG AGAAAGGGCT TCCTCCCCCA CACATCAGAC    60
AGGGCACCAA TGAGTGGGGC ACTCAAAAAA GAGAGCAGGC CCTGGAGAGG AAACCAAAGC    120
AAAGGTTAGT TTTATAATCT GATCCCTCAA TTACCTGTAA TTCATATTTT CTAAATGCAT    180
TAGTCTAAT TCATTGTACT GCCCCCAAAA CAGAATAATA CTTTGAAACA TTAATACAA    240
ACTACAATA AAAAAATAAA ATTAGGCCTG GCGTGGTGGC TCATGCCTGT AATCCCAGCA    300
CTTTGGAAGG CCGAGGCGGG TGGATCACTC GAG                                     333

```

(2) INFORMATION FOR SEQ ID NO:763:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 303 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:763:

```

GAATTCGGCC TTCATGGCCT AATTTGAATC AACACAACCA CCCACAGCCT AATTATTAGC    60
ATCATCCCTC TACTATTTTT TAACCAAATC AACACAACCC TATTTAGCTG TTCCCAACC    120
TTTTCTCCG ACCCCCTAAC AACCCCTCCT CTAATACTAA CTACCTGACT CCTACCCCTC    180
ACAATCATGG CAAGCCAACG CCACTTATCC AGTGAACCAC TATCAGGAAA AAAACTCTAC    240
CTCTCTATAC TAATCTCCCT ACAAATCTCC TTAATTATAA CATTACAAC CACAGAACTC    300
GAG                                     303

```

(2) INFORMATION FOR SEQ ID NO:764:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 265 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:764:

GAATTCGGCC	TTCATGGCCT	AGGGATTAA	AGAGTTTTTC	TGCGGTGTTT	GTCAAACTTT	60
TATTCCTGT	CTGTGTGCAG	AGGGGATTCA	ACTTCAATTT	TTCTGCAGTG	GCTCTGGGTC	120
CAGCCCCCTA	CTTAAAGATC	TGGAAAGCAT	GAAGACTGGG	CTTTTTTTCC	TATGTCTCTT	180
GGGAACTGCA	GCTGCAATCC	CGACAAATGC	AAGATTATTA	TCTGATCATT	CCAAACCAAC	240
TGCTGAAACG	GTAGCACCTC	TCGAG				265

(2) INFORMATION FOR SEQ ID NO:765:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 427 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:765:

GAATTCGGCC	TTCATGGCCT	ACCAACAGCA	AGCTCCAATA	TCACACATCC	AGACTCCTAT	60
GCTTTCCCAA	GAACAGGCAC	AACCCCGCA	GCAGGGTTTA	TTTCAGCCTC	AGGTGGCCCT	120
GGGCTCCCTT	CCACCTAATC	CAATGCCTCA	AAGCCAACAA	GGAACCATGT	TCCAGTCACA	180
GCACTCAATA	GTTGCCATGC	AGAGTAACTC	TCCATCCCAG	GAACAGCAGC	AGCAGCAGCA	240
ACAGCAGCAG	CAACAGCAGC	AGCAACAACA	ACAGAGCATT	TTATTCAGTA	ATCAGAATAC	300
CATGGCTACA	ATGGCGTCTC	CAAAGCAACC	ACCACCAAAC	ATGATATTCA	ACCCAAATCA	360
AAATCCAATG	GCTAATCAGG	AGCAACAGAA	CCAGTCAATT	TTTCACCAAC	AAAGTAACAG	420
TCTCGAG						427

(2) INFORMATION FOR SEQ ID NO:766:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 275 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:766:

CGATTGAATT	CTGTCTGTT	CTGCCTCACT	CCCGAGCTCT	ACTGACTCCC	AACAGAGCGC	60
CCAAGAAGAA	AATGGCCATA	AGTGGAGTCC	CTGTGCTAGG	ATTTTTCATC	ATAGCTGTGC	120
TGATGAGCGC	TCAGGAATCA	TGGGCTATCA	AAGAAGAACA	TGTGATCATC	CAGGCCGAGT	180
TCTATCTGAA	TCCTGACCAA	TCAGGCGAGT	TTATGTTTGA	CTTTGATGGT	GATGAGATTT	240
TCCATGTGGA	TATGGCAAAG	AAGGAGGGTC	TCGAG			275

(2) INFORMATION FOR SEQ ID NO:767:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 341 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:767:

GAATTCGGCC	TTCATGGCCT	ACGTAATTCT	GGAAAAGTGA	ATACTTGTGA	AGAGTCGTCT	60
TGAATGATTT	GTAATAAATC	CTGTTCTTAT	ATTCAACGAG	TTTCGAATCT	TTGTCAGAGG	120

AGTATTACCA	TTAGATTGAA	AAAAAGGAAA	ATAAATAATA	AACACTTTTA	AAAAAACTCC	180
CCATTCTCTT	ATTCTCACTT	TTAGGAAAAG	AGACTGACTA	ATATCTTCTG	CCACAAATAC	240
CGATGTTCTT	AAAAATATTT	ATGGGACTGC	TTTGGGCAAC	CAGCCCTATT	TTGTTTTCAT	300
ATCCCTTTTT	GCTCCCATCT	TTCCAAACTC	ATAAACTCGA	G		341

(2) INFORMATION FOR SEQ ID NO:768:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 281 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:768:

GAATTCGGCC	TTCATGGCCT	ACAGAAAGAG	TTTGAGACCT	GAATAGCTCC	CAGATTTTCAG	60
TCTTTTCCTG	TTTTTGTTAA	CTTTGGGTTA	AAAAAAAAAA	AAGCTTGATT	GGTTTTAATT	120
GAAGGAAAGA	TTTGTAACAC	AGTTCTTTTG	TTGTAAAGAG	TTGTGTTGTT	CTTTTCCCCC	180
AAAGTGGTTT	CAGCAATATT	TAAGGAGATG	TAAGAGCTTT	ACAAAAAGAC	ACTTGATACT	240
TGTTTTCAAA	CCAGTATACA	AGATAAGCTT	CCAGGCTCGA	G		281

(2) INFORMATION FOR SEQ ID NO:769:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 352 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:769:

GAATTCGGCC	TTCATGGCCT	ACTAACGAGG	AAAGGGATT	AAAGAGTTT	TCTTGGGTGT	60
TTGTCAAAC	TTTATTCCT	GTCTGTGTGC	AGAGGGGATT	CACCTTCAAT	TTTCTGCAG	120
TGGCTCTGGG	TCCAGCCCC	TACTTAAAGA	TCTGGAAAGC	ATGAAGACTG	GGCTTTTTTT	180
CCTATGTCTC	TTGGGAAC	TG CAGCTGCAAT	CCCGACAAAT	GCAAGATTAT	TATCTGATCA	240
TTCCAAACCA	ACTGCTGAAA	CGGTAGCACC	TGACAACACT	GCAATCCCCA	GTTTAAGGGC	300
TGAAGCTGAA	GAAAATGAAA	AAGAAACAGC	AGTATCCACA	GAGAGACTCG	AG	352

(2) INFORMATION FOR SEQ ID NO:770:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 316 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:770:

GAGCGTGGTG	GATATAAAAC	AGGTAAGAGA	CTTTCATGGT	ATACCTTTAT	ATTGTTGGAT	60
TAAAGGCACT	GCCAACCTCA	AAAACCTAAC	CGAAAATTTT	TTTTAATCAG	TTAAATATTT	120
ACTGATATGA	AAATGACATG	AACTAACTT	TTTGTTT	ACTTAAAGGG	TGCTCTGTTT	180
GAACTTCCT	CAGACAACTG	AATGGGAGAA	CCAGATGAAT	TTAGTAAAAG	TATTAACGTC	240
AAATATTTAT	ACTGCTTTT	TTGTTTGT	TGTTTGTGAG	ACAGAATCTT	GCTCTGTTGC	300

CCAGGCTGGT CTCGAG

316

(2) INFORMATION FOR SEQ ID NO:771:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 473 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:771:

```

GAATTCGGCC TTCATGGCCT ACTTTGATGG AATATCAGAT ATTGAAAATG TCTCTCTGCC      60
TGTTTCATCCT TCTGTTTCTC ACACCTGGTA TTTTATGCAT TTGTCCTCTC CAATGTATAT      120
GCACAGAGAG GCACAGGCAT GTGGACTGTT CAGGCAGAAA CTTGTCTACA TTACCATCTG      180
GACTGCAAGA GAATATTATA CATTTAAACC TGTCTTATAA CCACCTTACT GATCTGCATA      240
ACCAGTTAAC CCAATATACC AATCTGAGGA CCCTGGACAT TTCAAACAAC AGGCTTGAAA      300
GCCTGCCTGC TCACTTACCT CGGTCTCTGT GGAACATGTC TGCTGCTAAC AACACATTA      360
AACTTCTTGA CAAATCTGAT ACTGCTTATC AGTGAATCT TAAATATCTG GATGTTTCTA      420
AGAACATGCT GGAAAAGGTT GTCCTCATT AAAATACACT AAGAAGTCTC GAG              473

```

(2) INFORMATION FOR SEQ ID NO:772:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 253 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:772:

```

ATACAGTAAT CAAAGTAAGT AATATTTC AA TCCAATATTT TTA AAAATCA GAATTAATGC      60
AAAAAAACC ATGATGAACA AAATATTA AA ATTTAAAATA AAGACAGGAT TAGTATTACT      120
GAGTTTTCTT TTTGTCCCAG GCTCTAATAT GGCTTGGCAT GGGGCAGAAC ATTACAACAT      180
ACCAAGTCGT TCATGGTGCC CAAGGCTCCA CAGACCTCAG TGGCTCCCTG CTGCCTGCCA      240
CAGCAATCTC GAG              253

```

(2) INFORMATION FOR SEQ ID NO:773:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 286 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:773:

```

GAATTCGGCC TTCATGGCCT AGTGAGAATT GACTGTGCT TTTGTTTGCC TGCTTACTGT      60
TTTCTTTTAT TTATTTGTTT TTGGACCTGT GGCACAAAGG ATCTGTTTAC TGACCATCCT      120
TATGTGAGG CACACAGTCA CCATGGCACC CTGCGCGTTA CTCCTGTTCC ACTTGTTTAT      180
TCTCTGTATC CCCATACTAG TTATTATCGA AACCATCAGC CTA CTCTATT C AACCAATAGC      240
CTTGCCCGTA CGCCTAACCG CTAACATTAC TACAGGCCAC CTCGAG              286

```

(2) INFORMATION FOR SEQ ID NO:774:.

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 380 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:774:

```
GAGGCTGACA AAATACTCAC CTTTACCTTT ATTTTTCAT TTTATACTCA CAACCATATT      60
TTTTTTGGCC CCCTTCCCTT TATTTTAACT CATAACTGAT ACTTAAAGGT GCTCTGCCTT      120
ATTAAATCAG CTCCTAGGCT GCAAGTGCAAT AATATTTAAA AATTTGCAAC TTTGACTTTT      180
TAAAAATCTG GTCTTGGTAT GGAGCAACTT TGCCTTTTTT TTTTTTTTTT TTGAGACAGA      240
GTCTCGCTTT NTCGCCCAGG CTGGAGTGCA GTGGTCCCAT CTCAGCTCAC TGCAACCTCC      300
TCCTCCCGGG TTCAAGAGAT TCTCCTGCCT CAGCCTCCCG AGTAGCTGGG ATTACAGGTG      360
CCTGCCCCAA CACCCTCGAG
```

(2) INFORMATION FOR SEQ ID NO:775:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 347 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:775:

```
GGCCTGGTAG GATAAGAATA TAACTTCAG GGTGACCGAA AAATCAGAAT AGGTGTTGGT      60
ATAGAATGGG GTCTCTCCTT CCGCGGGGT CGAAGAAGGT GGTGTTGAGG TTGCGGTCTG      120
TTAGTAGTAT AGTGATGCCA GCAGCTAGGA CTGGGAGAGA TAGGAGAAGT AGGACTGCTG      180
TGATTAGGAC GGATCAGACG AAGAGGGGCG TTTGGTATTG GGTATGGCA GGGGGTTTTA      240
TATTGATAAT TGTTGTGATG AAATTGATGG CCCCTAAGAT AGAGGAGACA CCTGCTAGGT      300
GTAAGGAGAA GATGGTTAGG TCTACGGAGG CTCCAGGGAA GCTCGAG      347
```

(2) INFORMATION FOR SEQ ID NO:776:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 348 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:776:

```
GAATTGCGCC TTCATGGCCT AAGAGGATAA GGAAGAAAA AGAAGAAAGT ATTCCATTCC      60
CACATCCCTT TAGGTGGCT TCTTATTTTA TGTTTTTGT TGTGTGTTTA TTTTGCTTTG      120
TTAACAATTTT CAACTAGCTA TAGAAACGTT TGCAATTCTT ATTACTGATT AGCAATCCAA      180
AACTTTGTAA TGAACATTTT TCTCTCTTC TTTTTTTTT TTTTITNGAG ACAGGGTCTC      240
GCTCTGTCAC CAAGCTGGAG TGCAGTGAGC CAAGATCCTA CTGCTGTCCA TTCCAGCCTG      300
GGTGACAGAA CAAGACCTTG TCCGCCACC TTCCACCCCC CCCTOGAG      348
```

(2) INFORMATION FOR SEQ ID NO:777:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 377 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:777:

```

GAATTCGGCC TTCATGGCCT ACATGTTTAT TGAGCATTTA CTGTTTACCC ATCAGTATTC      60
TTGATGCTAA GGATATAGCA GTGAACAAAA CAATCCTTGT GGACTTACAT CATAGTAGGG      120
AAAATAGACA ATAAATAAAT GTATGATAAG TCAGTTGATA ATAAGTGCTA CGAAGTAAAA      180
CAAAGCAGGA ATAAAGTTGG GGAGAAAAGT GGAGGGTGAT TGCTATTTC A GTTGAGATCA      240
TTGGGATGGT CTTTCTGAG GAGGGGACAT TTGCATAGAG AAGCAAGGAT GTGAGTTATG      300
TGTCTGCTGT GTGTAGAACA TTCTGGGAAA GGGCAGAGAA GGGAAACAAGA CTATTCCAGA      360
AAAAGAGGGC ACTCGAG

```

(2) INFORMATION FOR SEQ ID NO:778:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 304 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:778:

```

GAATTCGGCC TTCATGGCCT AGCACAGCTA GACGGTTCCA GCTCAGGGTC TCTCATGAAG      60
TTGCAATCAA AATATTGGCA GGAGAGAAAA ACATATTTTC AGAAGCTGCA GGCATAGGAA      120
GACTTGGCTG GGGTTGAAGG ATCCACTTCC AAGATGGCGC ACTCAGTGGC TCTTGGCTGG      180
AGGCCTCAGT TCCCTGCTGC GTGGAGCTCT CCCTCCAGCT GCTTGAGTGG ACTCATGACA      240
TGCAGTGGC CTCCCTGGA GCAGTCGATC CAACAATGAG CATGGCCATG AACTAGAGCT      300
CGAG

```

(2) INFORMATION FOR SEQ ID NO:779:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 316 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:779:

```

GAATTCGGCC TTCATGGCCT AGCCAAAACC ACAGAATATA TAATATAGAT CTTGGGGATA      60
CAGCAGAGAA AAAAGACAAA AATCCCTGTT ACAATCCGTT CTAGAATTGA TGTTCCTTTG      120
TTGGTTAATT CAAGTTTGA TTTAGAAAAT CTTACCTCTT GGTGACTGCC TAGAGTGGCA      180
TTGGGCTGGA GGGGAGGAAC TGTTCATGTT GGAATGGGG AATGGGCCAA AAATGCAATT      240
GAGTAGGTTG ATTAACCTGT CTGCTGTCAG AGTGAAGCA GGGGTAGTTT CCCTTTCCGA      300
CCAGAGGCAT CTCGAG

```

(2) INFORMATION FOR SEQ ID NO:780:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 264 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:780:

```
GAATTCGGCC TTCATGGCCT ACAGAAGATT TGGACAATTC CATTGATAAA ACAGAAGCTG      60
GAATTAAGGA GCTTCAGAAG AGTATGGAGC GCTGGAAAAA TATGGAAAAA GAACATATGG      120
ATGCTATAAA TCATGATACT AAAGAACTGG AAAAGATGAC AAATCGGCAA GGCATGCTAT      180
TNAAGAAGAA AGAAGAGTGT ATGAAGAAAA TTCGAGAACT TGGATCACTT CCCCAGGAAG      240
CATTTGAAAA GCACCAGGCT CGAG                                         264
```

(2) INFORMATION FOR SEQ ID NO:781:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 580 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:781:

```
GAATTCGGCC AAAGAGGCCT AGCGATTGGG TCTTTGATAT CTGTAAGCCG TTGAATTAGC      60
CCTGCCCTCT GTTCTTAGTT TAGGAGACCA TAGATGTGCC CTTATTATTG AAATGATTTT      120
TATTCAGTTA CTGAAGTTAT CTTACCTGAT ACATAATTTT ACCCATAGAA AATAATATGA      180
AAATAGCAAA ATCACTCAGG TAAGATAGAT GAGTGCCTGC TGTGTTCAAG AGACTGTTAA      240
TATGAGGCTC TGGGGCTGCA AAAAAACAAG TTGCTAAGAA ATATGAGGTC AGAGCAGCAG      300
AAGTTCTGAG TAACCACTGA TTACTGGACT TGGGGTGATC AGAAGTGACT GTGTGGGAGA      360
GGTGAAATTG AGCAGACTCT GAAGGAACCT CTGGGTTTTG GTAAATAGGG AGCTGGGGAT      420
GAGGATGCCC CAGGTTTTAG AAAGAACACA GGCTGTTGAA TCACACCTGG GTTCAAACCC      480
TGGCTTGCTA CTCCCTAGTT TGTGACCTTG TCAAATTCCT TGATTTCCTT TTTCTTTTTC      540
TTTTTTTAAT TTTGGAGACA ACAGTCTCGC TCTGTCACCC                                         580
```

(2) INFORMATION FOR SEQ ID NO:782:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 131 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:782:

```
GAATTCGGCC AAAGAGGCCT AGAATGGTAG AGTAAAAAGA ACCCTCTGCT GAGTAACCAA      60
GCCTTTAATT TCCTGTCCT GCTGTAGGGC TTTCACAAAT GCATTTTCA GCCGGTTGGT      120
GTGTCCTCGA G                                         131
```

(2) INFORMATION FOR SEQ ID NO:783:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 121 base pairs
 (B) TYPE: nucleic acid

(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:783:

GAATTCGGCC AAAGAGGCCT AGATTGAGGT TGTGGTAGAT TAGGCGTAGG TAGAAGTAGA	60
GGTTAAGGAG GGTGATGGTG GCTATGATGG TCGGCTCGA GGCAGGTCTA GAATTCAATC	120
G	121

(2) INFORMATION FOR SEQ ID NO:784:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 405 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:784:

GAATTCGGCC AAAGAGGCCT AAGCAAGATG AAGCCCAACA TCATCTTTGT ACTTTCCTG	60
CTCCTCATCT TGGAGAAGCA AGCAGCTGTG ATGGGACAAA AAGGTGGATC AAAAGGCCGA	120
TTACCAAGTG AATTTTCCCA ATTTCCACAC GGACAAAAGG GCCAGCACTA TTCTGGACAA	180
AAAGGCAAGC AACAACTGA ATCCAAAGGC AGTTTTTCTA TTCATACAC ATATCATGTA	240
GATGCCAATG ATCATGACCA GACCCGAAAA AGTCAGCAAT ATGATTTGAA TGCCCTACAT	300
AAGACGACAA AATCACAACG ACATCTAGGT GGAAGTCAAC AACTGCTCCA TAATAACAA	360
GAAGGCAGAG ACCATGATAA ATCAAAGGT CATTTCACA GGGTA	405

(2) INFORMATION FOR SEQ ID NO:785:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 642 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:785:

GAATTCGGCC AAAGAGGCCT ACTACTCACC TCTTGCTCTC TCCCAACCAT AGAAACAGCC	60
ACGACTCCTA CCACAACTT GGGAAACACC ACCACTGAGA CCACCTCCCA CAGTACTCCC	120
AGCTTCACTT CTTCAGCCAT CTAATCCACC GTCAACATAT CCACAACTAC CATCTCCTCA	180
TTCCCCCTT CCTCAGGTAC CATGGTGACA TTCACAACCA TGAACCCATC CTCTCTGAGT	240
ACAGACATAT CTACCACCAC ACTGAAAAAT ATACCCAGC CTTCTGTGGG CTCTACTGGT	300
TTCTGACTG CAGCTACAGA CCTCACCTCA ACATTCACTG TTCCCACTTC CTCAGCAATG	360
TCCACAAGTG TCACTCCATC TGCCCCCAGC ATCCAGAATA AAGAAATCTC AACACTTGTG	420
AGTACAACCA CTACCACCAG TCCCACTGAG AGAATGACTC TCACAAGTAC AGAGAATACC	480
CCGACAAGTT ACATCCTGAC CACCAGTCCA GTGACATATT CATTTTCCCC TTCCATGTCT	540
GCCAGCAGTG ACTGGACCAC TGACACAGAG AGCATCTCCT CAGCTCCAGC CATCACCAGT	600
ACACTCCACA CAACAGCTGA ATCCACCCTG GCAGGTCTAG AA	642

(2) INFORMATION FOR SEQ ID NO:786:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 469 base pairs

(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:786:

GAATTCGGCC	AAAGAGGCCT	ATGGCCTTGG	AAGGGATGAG	CAAACGGAAG	AGAAAGAGAA	60
GTGTCCAGGA	GGGAGAGAAT	CCTGACGACG	GCGTTCGCGG	GAGTCCGCCG	GAAGACTACA	120
GGCTTGGACA	GGTCGCCAGT	AGCTTATTTC	GCGGCGAACA	CCATTCCAGA	GGTGGCACCG	180
GTCGGCTGGC	GTCCCTCTTC	AGTTCTCTGG	AGCCCCAGAT	TCAACCCGTG	TACGTGCCTG	240
TGCCTAAACA	AACCATCAAA	AAAACGAAAC	GGAATGAGGA	GGAAGAAAGT	ACATCCCAGA	300
TTGAAAGACC	ACTTTCGCAA	GAACCTGCCA	AAAAAGTGAA	AGCGAAGAAG	AAACACACTA	360
ACGCAGAAAA	AAAGTTGGCA	GACAGGGAAA	GCGCTCTAGC	GAGTGCTGAT	TTAGAAGAAG	420
AAATTCACCA	GAAACAAGGG	CTTAGCTCGA	GCAGGTCTAG	AATTC AATG		469

(2) INFORMATION FOR SEQ ID NO:787:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 501 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:787:

GAATTCGGCC	AAAGAGGCCT	AAGAAAAGAT	ATAAATCAGA	GAAAAAGCAT	GAAGCGTATC	60
ATATTGATTT	TAACAGTATT	GCTTGCCATG	TTAGGGCAGG	TTGCCTATGC	GCAGAAAACG	120
TGTGTCATCG	CATCGGCAGA	AAATCATGTG	CCTATTCGTG	AAGCACTTAT	TCATACCAAT	180
AACAATCATT	GGGCAAGAAC	AGATTATCGG	GGCTATTGGA	CGATGCGCTA	TCAGTTTGAT	240
TCAGCAACCG	TATCGAAACC	TGGTTTATG	AAGGCAACTA	TCCGGTACAA	GGAAGTCCG	300
GATACTCTGT	TTCTCTTGCC	GGATGCCAAA	CAGTTAGGCG	AAGTGACAGT	TTGGGGCAAG	360
AATCAGGAAG	GCATCAAAAA	TATGGAAGAG	GATATTCAGG	AGAAGATAAA	CTCTTTGCCA	420
ACTTCATCTG	CTGGCATTGG	TTTTGATGCT	TTCGGATGGA	TGGATAAACA	GGGAAAACGT	480
GATAAGAAGC	ATCTGCAACA	G				501

(2) INFORMATION FOR SEQ ID NO:788:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 122 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:788:

TGATGATCGA	TATCCAGAAA	GACACTGCGG	TGGAAGGTGA	GGAGATTGAA	GTCAACTGCA	60
CTGCTATGGC	CAGCAAGCCA	GCCACGACTA	TCAGGTGGTT	CAGAGGGAAC	GCAGAACTCG	120
AG						122

(2) INFORMATION FOR SEQ ID NO:789:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 274 base pairs

(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:789:

GGTGAGCTGA	GATCGCACCA	CTGCACTGCA	AGACCCTGTC	TCAAAACAAA	CAAACAAACA	60
ACAACAACAA	CAACAAACCA	AACCAAACAA	AAAACCTGCA	TAGCCAACTA	GACCAGCATA	120
GAGGGCGAAA	ACCATGCTTT	TTGTCAAATG	GTACTGTTTA	TTCTGTTTTG	CTGTCAGCTG	180
GTTTGCCGCT	TCTGATAAAG	CTAGCCCTTG	CTGTGTGCAT	GCAGGTTATA	GTGCCCAGGC	240
TCATATTTC	TCTTCTTGCT	GCACCTCACT	CGAG			274

(2) INFORMATION FOR SEQ ID NO:790:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 209 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:790:

GAATTCGGCC	TTCATGGCCT	AGGGAAGGA	GGCGGCAGCC	AGGCTGTGTC	CCCTGACCGT	60
TGGAGCGTCT	GCGACCCCG	CATCCCCGCA	CCCTCAAGGC	ACCTCCAAAG	ATGATGATGG	120
GTTGTGGGGA	GTGAGAGCTG	AAGTCGGCGG	ACGGGGAAGA	AGCCGCGGCG	GTCCCGGGGC	180
CACCCCGGGA	GCCCCAAGTC	CCGCAACCG				209

(2) INFORMATION FOR SEQ ID NO:791:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 389 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:791:

GAGAGAATTA	AAGAGAACCA	CNAAGCTGAA	CCTCAAAAAG	TTAGCCTGGC	GAGGGGAGGA	60
TGATGAGATT	TCCCCTGTTG	TCACATAAAC	AAGGAAGTAA	AGGGGGCCCC	TTGTGCTCTC	120
AGAACTCCAA	GATGAAACG	ATAGCAAAGG	GAAAAACAGC	TAAGTGTTTC	CTGGCTGAAT	180
TTTATTTTGC	TTTCAGTTTC	TGCCATTTC	GTTCTGTGTA	TCGTGCTTTG	AGGTGCACTG	240
AACTGCAGCA	AACCCAGGGG	ATCCAAGGCT	ACGTTGAAAA	GCCTTTGACC	ACAGTGCAGG	300
GAGCAGAAGA	CATTAAATGAC	GTGATGTCGA	CACAGCCCGC	ACTCAGGATC	CTCCAGGAAA	360
AGAACACAGA	GATAACCCCG	GAACCTGAG				389

(2) INFORMATION FOR SEQ ID NO:792:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 332 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:792:

```

GTGCTTTGGA TTTTGCATCC AGCTTTTCT CAACACCCCC GCTGGAATC AGCGGCTCCA    60
TCTCTTCGCC TTCGGAAGCA CCTGCGTCTC TGTCTCTGAT GCCGAGTGAC TTGTCCCCCT    120
TCACATCTCA GTCTTTTCT CCCTGGGTG AGACATTAC ATTGTTTGAC TCTAGTGATC    180
TGCAGTCATC TCAGCTGTCT CTTCACAGT CCACAAATCT TGAGTTTTCG CAGCTCCAGC    240
CAAGTTCCGA GCTGCCTTTA AACACCATCA TGTGCTACC TANCCGTTCT GAGGTGTCAC    300
CATGGTCAAG CTTCCCTTCT GATTCTCTCG AG                                332

```

(2) INFORMATION FOR SEQ ID NO:793:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 262 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:793:

```

GAATTCGGCC TTCATGGCCT ACTGGAATTT CTTTCTGCC CTTTCATATT TTAAGATGGC    60
TGGAATAGCA CAGGGAGTAT ATAGCAGATA TCTTCTGGGA AATAATTCAT CTGAGGATAG    120
CTTTTATTT GCCAATATTG TGCAACCTCT GGCAGAACT GGAATACAAC TCTCCAAACG    180
AACTTTCAGT ACTGTACTAC CACAGATTGA TACTACTGGA CAGTTGTTTG TACAGACTCG    240
GAAAGGTCAG GAAATTCTCG AG                                262

```

(2) INFORMATION FOR SEQ ID NO:794:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 304 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:794:

```

GAATTCGGCC TTCATGGCCT ACTATGCCGT CATGATAGAG AAGATGATCC TGAGAGACCT    60
GTGCCGTTTC ATGTTTGTCT ACGTCGTCTT CTTGTTCCGG TTTTCCACAG CGGTGGTGAC    120
GCTGATTGAA GACGGGAAGA ATGACTCCCT GCCGCTGAG TCCACGTCGC ACAGGTGGCG    180
GGGGCCTGCC TGCAGGCCCC CCGATAGCTC CTACAACAGC CTGTACTCCA CCTGCCTGGA    240
GCTGTTCAAG TTCACCATCG GCATGGGCGA CCTGGAGTTC ACTGAGAACC ATGAACCTCT    300
CGAG                                304

```

(2) INFORMATION FOR SEQ ID NO:795:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 255 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:795:

GCGATTGAAT TCTAGACCTG CCTCCAAGCA GCTGCAGTAT CTCGGAAGAA AAAACGAAGA	60
ATGGGAACCT ATAGCCTGGT TCCTAAGAAA AAGACCAAAG TATTAAACA GAGGACGGTG	120
ATTGAGATGT TTAAGAGCAT AACTCATTCC ACTGTGGGTT CCAAGGGGGA GAAGGACCTG	180
GGCGCCAGCA GCCTGCACGT GAATGGGGAG AGCCTGGAGA TGGACTCAGA TGAGGACGAC	240
TCAGAGGAGC TCGAG	255

(2) INFORMATION FOR SEQ ID NO:796:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 267 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:796:

CTAGTCTTCC AACCCCTTCTG GACTTTCTTT GCTCTGTCT TGTITTGGGT GTACTGGATC	60
ATGACACTTC TTTTCTTGG CACTACCGGC AGTCCTGTTC AGAATGAGCA AGGCTTTGTG	120
GAGTTCAAAA TTTCTGGGCC TCTGCAGTAC ATGTGGTGGT ACCATGTGGT GGGCCTGATT	180
TGGATCAGTG AATTTATTCT AGCATGTCAG CAGATGACAG TGGCAGGAGC TGTGGTAACA	240
TACTATTTTA CTAGGGAAGT ACTCGAG	267

(2) INFORMATION FOR SEQ ID NO:797:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 185 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:797:

GAATTCGGCC TTCATGGCCT AGGGGGAGTT TAGCTGAAAC AAGTTTTACA GAAGCAGAGC	60
TGGCAAATAG TTAAATATT AATTGGTTAC AATAGCAGT ACAAAACAAA TAAACAGTTC	120
CAGGTGCAGG GGCTTAAACT ATCACAAGA GAGAAATGCA GGGGTTTTGC GTGACATTCA	180
CCGAG	185

(2) INFORMATION FOR SEQ ID NO:798:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 434 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:798:

GGGCGTGTGA CGACTGCTGG GAGAGGAAAG CGAGACATCA TTCCAACCCT CCAGAAGCTA	60
AAGATCCTGG AACTCAAGGG GAAAACTAAC GTAAGTGCGA AAGCGAACAA GCAAACATGT	120
CCTCAACGGG GCAGGCAGGC TGTCGGGGTA CAGAGCTGGG ATCTGGGAAG GAACAGAGAG	180
GGCCGCTCAG GGAGAGGAAG CACAGTGCCA CCGGAGGCAC GCACTCAGCA GGCCTCGCA	240
GGCTGGGCAG AGGTAGAGAA GCAGCGCTGC ACAGGCAGGC AGCTGACCCA GGGCTCTTAG	300

AGCCGGGCAG GAGAGCTGGT GTGGGACCTG GGAGGAGGAC AGGAGCCTTC AAAGCAGCAC	360
CGCCTGATTG CAGCCAGGAG GGTAGCATCA AGGAAGATGG AACTGCGGCC AGGCCACATC	420
CAGGGGTGCT CGAG	434

(2) INFORMATION FOR SEQ ID NO:799:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 424 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:799:

GAAAAGTCGG ATGCTGGCCT CTGGAAATCA GCCAGATCAA GATATTACAC ATTTCTTCCA	60
ACAGATCCAG GAGCTCAATT TGGAAATGGA AGACCAACAG GAGAACCTAG ATACTCTTGA	120
GCACCTGGTC ACTGAACTGA GCTCTTGTGG CTTTGGCGTG GACTTGTGCC AGCATCAGGA	180
CAGGGTACAG AATCTAAGAA AAGACTTCAC AGAGCTACAG AAGACAGTTA AAGAGAGAGA	240
GAAAGATGCA TCATCTTGCC AGGAACAGTT GGATGAATTC CGGAAGCTGG TCAGGACCTT	300
CCAGAAATGG TTGAAAGAAA CTGAAGGGAG TATTCACCT ACGGAACTT CTATGAGTGC	360
TAAAGAGTTA GAAAAGCAGA TTGAACACCT GAAGAGTCTA CTAGATGACT GGGCAAGTCT	420
CGAG	424

(2) INFORMATION FOR SEQ ID NO:800:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 300 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:800:

GAATTCGGCC TTCATGGCCT AGGGGTGCTG TGTGTTTTTC AGGGCGCCCT GCGTCCGGCA	60
GAGGAGGCGA GCATCCCGCT CAGGTGATGA GGAACCCCTC GCGCACCCAG CGCAGAAGGC	120
TGCTGCCGCC GGACGCCTCC ATTGTTTGAC CACAACAAGG GCCGATTCT CACCCAGCAG	180
GATCCTAAGG CCTTGTAGT CCTTCAGCCA CTGTGGGCC TGCCTCTGCC TGTCTTCTG	240
GAATGTCTTG GGGGTTTTGA TCCTGTCACT GTGACCTGCA AATCCAAGAG ACAACTCGAG	300

(2) INFORMATION FOR SEQ ID NO:801:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 306 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:801:

GAGAAATCAG TGAAGGATTT GCAACGCTGC ACCGTTTCTC TAACTAGATA TCGGTCATG	60
ATTAAGGAAG AAGTGGATAG TTCCGTGAAG AAGATCAAAG CTGCCTTTGC TGAATTACAC	120
AACTGCATCA TTGACAAAGA AGTTTCATTA ATGGCAGAAA TGGATAAAGT TAAAGAAGAA	180
GCCATGGAAA TCCTGACTGC TCGTCAGAAG AAAGCAGAAG AACTAAAGAG ACTCACTGAC	240

CTTGCCAGTC AGATGGCAGA GATGCAGCTG GCCGAAGTCA GGGCAGAAAT TAAGCACGGT 300
CTCGAG 306

(2) INFORMATION FOR SEQ ID NO:802:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 263 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:802:

GCTCGCGGCC GTTCAGAAATT ATAAGGCTGT CTGCAGAGAT TTGAAAAATG GCAACAAATG 60
AAAGTGTGAG CATCTTTAGT TCAGCATCCT TGGCTGTGGA ATATGTAGAT TCACTTTTAC 120
CTGAGAATCC TCTGCAAGAA CCATTTAAAA ATGCTTGGAA CTATATGTTG AATAATTATA 180
CAAAGTTCCA GATTGCAACA TGGGGATCCC TTATAGTTCA TGAAGCCCTT TATTTCTTAT 240
TCTGTTTACC TGGATGTCTC GAG 263

(2) INFORMATION FOR SEQ ID NO:803:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 276 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:803:

GAATTCGGCC TTCATGGCCT AAATAGTTAG TCACCTTCTG ACCTTCTCCT CTTTCTCAAA 60
GCCTTCTGTC CTTGGTTTTT GCAAGTGCTG CATTTCCGCC GAGAATCCGC GTTGCCCTACT 120
GCTGCCACCT CTTGTTTCAAT TAGAACTATG CAAAGACTCC GCTTCCGTTT TCCTGAGCTC 180
CTCGGGCCCC AGAGTCTCTG TTTGATTATT TATTTATTTA TTATTTTATT TGCCAAAAAT 240
TCTCTCTTTC AACTTATAGA ATGCACCCAA CTCGAG 276

(2) INFORMATION FOR SEQ ID NO:804:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 580 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:804:

GAATTCGGCC TTCATGCCTA CAGCCATATT AAACTAAGT AAAGTCTGCC CTGGGAAGTA 60
CACTTTCAGC TTGACTGTAG TAGACTCTGA TGGAGCTACC AACTCTACTA CTGCAACCT 120
GACAGTGAAC AAAGCTGTGG ATTACCCCCC TGTGGCCAAC GCAGGCCCCA ACCAAGTGAT 180
CACCCTGCCC CAAAACCTCCA TCACCTCTTT TGGGAACCAAG AGCACTGATG ATCATGGCAT 240
CACCAGCTAT GAGTGGTCAC TCAGCCCAAG CAGCAAAGGG AAAGTGGTGG AGATGCAGGG 300
TGTTAGAACA CCAACCTTAC AGCTCTCTGC GATGCAAGAA GGAGACTACA CTTACCAGCT 360
CACAGTGAAT GACACAATAG GACAGCAGGC CACTGCTCAA GTGACTGTTA TTGTGCAACC 420
TGAAACAAT AAGCCTCTC AGGCAGATGC AGGCCAGAT AAAGAGCTGA CCCTTCCTGT 480

GGATAGCACA ACCCTGGATG GCAGCAAGAG CTCAGATGAT CAGAAAATTA TCTCATATCT 540
CTGGGAAAAA ACACAGGGAC CTGATGGGGT GCAGCTCGAG 580

(2) INFORMATION FOR SEQ ID NO:805:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 323 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:805:

CAAATTGATT TCGGCACAGT TCTGGGAGCT GGGACATTCA AGGTCACCAC GTTGCCACCT 60
GTGAAGGCCCT TCTGCTGCAT CCTCATGTTG GGAAGATCA GAAGTGAGAA CACATGCTGG 120
CCAGTCCTTT CACAGCAGCA TCAATCCGTG CATGGGGCAG GGCCCTCGGC CTGAGCGCCT 180
CCCCAGGCC CTAATCCCA GCACTGCCCT GCTGGGGATG GAATTTCCAA CATGAATCTG 240
GGGGATGCTT TCGGACCACA GCCGGGGAGC CTGCCCTGGC TTCCAGCTGC TGGTGGCCCA 300
GGGGCTCCCT GGCTTGCCTC GAG 323

(2) INFORMATION FOR SEQ ID NO:806:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 304 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:806:

GCGATTGAAT TCTAGACCTG CCATTCTCGC TCTGCCGACG TTGACTCTCT CTCTGAATCC 60
AGTCCCAACT CCAGCCCTGG CCCCTGTCCT GAGAAGGCC CACCACCCA GAAGCCCAGC 120
CATCTCCCAG GGGGCCCTCA TCGCCATCGT CTGCAACGGT CTCGTGGGCT TCTTGCTGCT 180
GCTGCTCTGG GTCATCCTCT GCTGGCCTG CCATTCTCGC TCTGCCGACG TTGACTCTCT 240
CTCTGAATCC AGTCCCAACT CCAGCCCTGG CCCCTGTCCT GAGAAGGCC CACCACCACT 300
CGAG 304

(2) INFORMATION FOR SEQ ID NO:807:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 556 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:807:

GAATTCGGCC TTCATGGCCT AGATATGAGA AATGAGTGTG GGACGTCGAA GAATAAAGTT 60
GTTGGGTATC CTGATGATGG CAAATGTCTT CATTATTTT ATTATGGAAG TCTCCAAAAG 120
CAGTAGCCAA GAAAAAATG GAAAAGGGGA AGTAATAATA CCCAAAGAGA AGTTCTGGAA 180
GATATCTACC CCTCCGAGG CATACTGGAA CCGAGAGCAA GAGAAGCTGA ACCGGCAGTA 240
CAACCCCATC CTGAGCATGC TGACCAACCA GACGGGGGAG GCGGGCAGGC TCTCCAATAT 300
AAGCCATCTG AACTACTGCG AACCTGACCT GAGGGTCACG TCGGTGGTTA CGGGTTTAA 360

CAACTTGCCG GACAGATTTA AAGACTTTCT GCTGTATTG AGATGCCGCA ATTATTTCACT	420
GCTTATAGAT CAGCCGGATA AGTGTGCAAA GAAACCTTTC TTGTTGCTGG CGATTAAAGTC	480
CCTCACTCCA CATTTTGCCA GAAGGCAAGC AATCCGGGAA TCCTGGGGCC AAGAAAGCAA	540
CGCAGGGAAC CTCGAG	556

(2) INFORMATION FOR SEQ ID NO:808:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 359 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:808:

GGAAACTTCT AACTATTTT GCTCGCAACT TTTACAACAT GAGAATGTTA GCCTTATTTG	60
TCGCATTTGC TATCAATTTC ATCTTGCTCT TTTATAAGGT CTCCACTTCT TCTGTGGTTG	120
AAGGAAAGGA GTCCTCCACG AGAAGTTCAA GTGAAAATGC CAAAGTGACA AGCCTGGACA	180
GCAGCTCCCA TAGAATCATC GCAGTTCACT ATGTACTAGA GGAGAGCAGC GGCTACATGG	240
AGCCACGTT GCGTATCTTA GCTATTCTGC ACACGGTCAT TTCTTTCTTC TGCATCATTG	300
GATACTACTG CTTGAAAGTC CCATTGGTTA TTTTAAAGCG AGAAAAGGAA GTGCTCGAG	359

(2) INFORMATION FOR SEQ ID NO:809:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 299 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:809:

GAGANACGAC AATGTCCAGG AAACAGAACC AGAAGGATTC ATCAGGATTC ATTTTGTATT	60
TGCAGTCCAA TACCGTACTG GCCCAGGGAG GAGCTTTTGA GAACATGAAA GAGAAGATAA	120
ATGCGGTACG TGCAATAGTT CCTAATAAGA GCAACAATGA AATTATCCTG GTTTTGCAGC	180
ACTTTGATAA CTGTGTGGAC AAAACAGTAC AAGCATTATG GGAAGGTAGT GCCAGTGAAG	240
TACTCAAAGA ATGACAGTA ACAGNCAAGA AAAAGAACAA AAAGAAGAAG AAACCTCGAG	299

(2) INFORMATION FOR SEQ ID NO:810:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 413 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:810:

GAATTCGGCC TTCATGGCCT AGTAGCTGTT CCAGTACAAT TCAATGTTAT CCAGGTTGGG	60
TGCATGTGTA ATGATATTTC TGTACTTTTG TATCAACTCA GAATTTCCAG AGAGCTCTTC	120
CTGGCTGAAA AGATGTCCAA GGATCATCTC CGGAATGGAA GAGGTGAGGC CTGTTAGCTT	180
GTGGGCTGCC CAATCCATCC AACCTTGGC ATTGGGATCA ATGTTGATGA GGACAAGACC	240
TTCAACAGTG TCCGGGTGGT TAAGAGCATA TCTGCCAGG ATGTAGGCTC CAGCTCCAAC	300

ACCAACTCCA ATTATTGTAG AGAAATTTAG GTACTGCAGG ACGCAAGGGA TCATGTCTGC 360
AAGCTGGTCC AGAGATGGGT ACTGATATCC CAAAGGGAAC ACAGGGGCTC GAG 413

(2) INFORMATION FOR SEQ ID NO:811:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 324 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:811:

TTGGTATTGT CTCTGTACTA GTCTTTCCAA ATTCTGCTGT GAGCTTTTGT CTTAGACTGT 60
AAGCCTTAGA GTCACATC ACAGTAATCC TAAAGACAGA TTTTCTGTT CTATTTGATA 120
AGGCCTTTT GTGGGTGTG CCGACTGTCA GTTTCATGTT TGTGTGTTG TTTTGGAAC 180
GCAGTACAT CCAGGAGACC TGTGGTGAGC ATAATGGGCT GTAGTTTGTG CAGTTGTCAG 240
TATAGCTTGT TAGGGAGCTC TTCCTGGGCA GAGTCTTGCA CAGCAGAGCC CAGTGCTGAG 300
CTGAGTTCTT GGCACCATCT CGAG 324

(2) INFORMATION FOR SEQ ID NO:812:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 352 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:812:

ACATTTCTTT GTAAGTTNNN AAAAGCCTAT GAGGGTTTTT TCCACGATTC CGTCCCAGT 60
TTGGCTTTTG TTGTTGTTGT GGCTGTTCTT GGCCCCCTG GGCCTGCAG TGGAGTGGGG 120
GGCTGCACCT GGGAGCCTCG AGCTGAGGCC CAGCCCCTCC TGCCCTGCAT TTTCTGCCA 180
AGCAGCACCT GAGACTCTGA AGCCGATGCC TATACAGGCA GAAACCTGCC AATTCCAGCT 240
TGAACGACTG GAGGGTCCTG AGGATGGGGG TCCCTGGGGT GCCATCATGG GCAGGGTGCA 300
TCTGTTGGG TATGCTGCCC CCCAGCTGGC GGGGCACCGG GGACAGCTCG AG 352

(2) INFORMATION FOR SEQ ID NO:813:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 329 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:813:

GAATTCGGCC TTCATGGCCT AGGGAAAGGG AANGTGGGGA GGGTCCGAGG GGAAGGGGAC 60
CCCAGCTTCC CTGTGCCCGC TCACCCCACT CCACCACTCC CCGGTGCGCA GCCGGAGTCT 120
CCTCTCTACC GCCACTGTCA CACCGTAGCC CANATGGATA NCACNGTTGT CAGACAAGAT 180
TCCTTCAGAT TCCGAGTTGC CTACCGGTTG TTTTCGTTGT TGTGTTGTT GTNTTNTTT 240
TTNTTTTNNN TNCGGAAGAC AGCAATAACC ACAGTACATA TTACTGTAGT TCTCNATAGT 300
TNCACATACA TTNATACCAT AACCTCGAG 329

(2) INFORMATION FOR SEQ ID NO:814:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 272 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:814:

```

GAATTCGGCC TTCATGGCCT ATCCATTTCC AAATCCACCA AGGTCCAGTC GACAGACATT      60
TCCAAAAAGA ATCCTGTTCT AGGACCACTT GCGCTGAGAG CACACCCGGG GGTCAAAGGG      120
CAGCCACCGG GGGTCAAAGG GCAGCCATCA GGTACTCCCC AGGGAAGGGC TTGCGGCCAC      180
CAGTCACTGC AACCCGCGCT CACCTCCGAT GCCTGCTGTG CCCAGGGTGG TCCCGCTCAT      240
AGCGACGGCC TNGCGTNCA TANGACCTCG AG                                     272

```

(2) INFORMATION FOR SEQ ID NO:815:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 584 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:815:

```

GATTGAATTC AATGTTAAGC ACCAATGCTG GATTGGTGG TGGACTGAAC ACCAGTGCTG      60
GCTTTGGTGG TGGCCTAGGC ACCAGTGCTG GCTTCAGTGG TGGCCTAAGC ACAAGTTCTG      120
GCTTTGATGG TGGGCTAGGT ACCAGCGCTG GCTTCGGTGG AGGACCAGGC ACCAGCACTG      180
GTTTTGGTGG TGGACTGGGC ACCAGTGCTG GCTTCAGTGG CGGACTGGGC ACCAGTGCTG      240
GCTTTGGTGG TGGACTGGTC ACTAGTGATG GCTTTGGTGG TGGACTGGGC ACCAATGCTA      300
GTTTCGGCAG CACACTTGGC ACCAGTGCTG GCTTTAGTGG TGGCCTCAGC ACCAGCGATG      360
GCTTTGGCAG TAGGCCTAAT GCCAGCTTCG ACAGAGGACT GAGTACCATC ATTGGCTTTG      420
GCAGTGGTTC CAACACCAGC ACTGGCTTTA CTGGCGAACC CAGCACCAGC ACGGGCTTCA      480
GTAGTGGACC CAGTTCTATT GTTGGCTTCA GCGGTGGACC AAGCACTGGT GTTGGCTTCT      540
GCAGTGGACC AAGCACCAGT GGCTTCAGCG GCGGACCGCT CGAG                                     584

```

(2) INFORMATION FOR SEQ ID NO:816:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 481 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:816:

```

GAGAATGTCC AGCAAGGAAG TGAAGACTGC TCTAAAAAGT GCTAGAGATG CAATCAGAAA      60
CAAAGAATAC AAAGAAGCTT TGAAACACTG TAAGACAGTG TTAAGCAAG AGAAAAATAA      120
CTATAATGCC TGGGTTTTTA TTGGCGTTGC TGCAGCTGAA CTAGAACAAC CTGATCAGGC      180
CCAGAGTGCC TATAAAAAAG CTGCTGAATT AGAGCCAGAC CAATTACTAG CTTGGCAGGG      240
GTTAGCAAAC TTGTATGAGA AATATAATCA CATAAATGCT AAGGATGACT TGCCTGGTGT      300
TTACCAAAG CTCCTGGATC TTTATGAGAG TGTTGACAAG CAGAAGTGGT GTGATGTCTG      360

```

CAAGAACTT GTGGATCTAT ATTACCAAGA AAAGAAACAC CTAGAGGTGG CTCGAACATG 420
GCACAAGTTG ATAAAAACAC GGCAGGAACA AGGTGCAGAA AATGAAGAGC TTCATCTCGA 480
G 481

(2) INFORMATION FOR SEQ ID NO:817:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 209 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:817:

GAATTCGGCC TTCATGGCCT AGGGGGAGTG GTGGGTATTG CTAAGTTATC AGTTATTTAA 60
CCTTATGGAG TTTTATTAA CCGTTTTTGT TTGACATGTT TTATATATAT GTAATTTTAT 120
TTATTCTTCA CAAAATCCCT GTGAGGGGGG TGGTACTATT GTCCCCATTT AAAGATGAGA 180
ACACTGAGGC ATGTCTAGAA TTCATCGAG 209

(2) INFORMATION FOR SEQ ID NO:818:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 220 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:818:

GGCTCTGTGG AATTCCATGG CATCTTCCCC GCCCCCCCCA ACCCCCCCCT TTCCCCTTC 60
TTTTTTTTTT TTCTTTTCT TTCTCCCTT CCCCCCTTT CACCATTTC CCTCGGAGGC 120
GCTTTCCTCG GGCAGGGGCA GAGCCGGTCT CCCCCCGC CTCTCCCCGG CCCCCCGCG 180
CCTATGGCGA GAGGGAGCCC CCTCCAACC CGGGTCGAG 220

(2) INFORMATION FOR SEQ ID NO:819:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 346 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:819:

GAATTCGGCC TTCATGGCCT ACACATTCCT TAGTCAGAA ACATTAAAAT AGTAGAGTAA 60
GTGGCTTGA AGTGAATTT TGTGTGAAAT CTTTCTCTG CCCTAGCCTA GTTTGTCCAT 120
GCACATTTGC ACACAGGAAG AACATTTTGA GACCTGCCAG AATATGCAAT GACAGGGTAA 180
AAAATGCCG AGTTGACTG TGTTCATAGA CATTGTGCTA AACACTCAAC ACTCCTGATC 240
ACACTGAATG CTTTGTACAG TCCTGTGAAT TGAGGGCTAT TATTATCCCC ATTTTATATA 300
TGAGCGAGCA GAGGCCGAGA CAGATTACA AAGGTGCTCC CTCGAG 346

(2) INFORMATION FOR SEQ ID NO:820:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 355 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:820:

```
GCTTATACAG TGTCCGATAG ACACCAGGAA GCNACTAGCA GAGAATTTGG TAGTCATAGG      60
TGGCACTTCT ATGTTGCCAG GATTTCTCCA CAGATTGCTT GCAGAAATAA GGTATTTGGT      120
AGAAAAACCA AAATATAAAA AAGCACTTGG CACTAAGACA TTTCGAATTC ATACTCCACC      180
TGCAAAAGCT AATTGTGTGG CCTGGTTGGG AGGGGCTATT TTTGGAGCAT TACAAGATAT      240
ACTTGGGAGC CGTTCTGTTT CAAAGGAATA TTATAATCAG ACGGGCCGTA TACCTGATTG      300
GTGTTCTCTC AATAACCCAC CTTTGAAAT GATGTTTGAT GTCGGGGAAC TCGAG          355
```

(2) INFORMATION FOR SEQ ID NO:821:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 273 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:821:

```
GCTCGAGGGC GAAGGGGAGC AATGGCATT TCGTTGGCCA TCCGTGACAC GGCATCCTAT      60
GCTCGCCAGA TGATGTTTAC GACCACCTT CTCAATTGTGT TCTTCACTGT CTGGATCATT      120
GGAGGAGGCA CGACACCCAT GTTGTCTATG CTTAACATCA GAGTTGGCGT CGAGGAGCCC      180
TCCGAAGAGG ACCAGAATGA ACACCACTGG CAGTACTTCA GAGTTGGTGT TGACCCCGAT      240
CAAGACCCAC CACCCAACAA CGACAGACTC GAG          273
```

(2) INFORMATION FOR SEQ ID NO:822:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 286 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:822:

```
GAGATAAACA AAATTGATTG CCCATTCTC TCACTTCCCC ATCTTGTCTT CCTAGACCCC      60
ACAGAGTTAA AACTTGGGAT TCCCCTGGCC CCCCAGAAC ACTTGATATAT TGTTTGTGTTG      120
AGGTTCTGTC CGCAGTAACA GACACAGTAT TTAATTGCAC ATACAGATGT TTGCTGGGTA      180
TATTCAGTGT AAATTTTATT TAATCTGTTT TTTTGTGTTG TTGGGGGTTA TTTGGGGGGA      240
GGTTGGTTT GTTTTAAAT ATAAAAA AAATCTGTCA CTCGAG          286
```

(2) INFORMATION FOR SEQ ID NO:823:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 297 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:823:

GGTCTGGAGG	AGGCCCGGAG	GGGCTGTGGG	TGGACCACTG	CAGTAATCTG	GGTGAAAGAT	60
GATGATAGGC	TAGACTAATA	TGGTACCAGA	GACAAAGAAG	AGGGACTTGA	GAGTTATTTA	120
GGAGGAAAAA	AACAAAACAA	AACAAAAATC	AACCAGACTT	ACGTTTTGAA	ATAGGACAAG	180
TGAGGAAAAG	GAGGGTTTCG	AGAATAGCTT	ATAGTTTTTCG	AGAAGATGAG	GTTGGACAAG	240
ATGCCACTGC	TTTCTTAGC	ACTCTTCCCT	CCCCTAAACC	ATCCCGTAGT	GCTCGAG	297

(2) INFORMATION FOR SEQ ID NO:824:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 268 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:824:

GAATTCGGCC	TTCATGGCCT	ACCCTCATTA	CCCCAAGTGC	CTCCTAATGG	ATCTGTCCTT	60
ATTCTTCCTT	GTTCTGTCTC	CCTCATGCCC	TGGAGCTCCT	CTCTTTGGGA	CCTTCCTCTC	120
CCAAGTCACC	ACCCTCTCTC	CCCTTCTACC	ACTCAGCCAT	TCCCCAGTTT	CCACAGTTCC	180
TCAAACATTA	CCCCACTCCC	CACTCCCCAG	TTTCTCTCCC	CTCCCCATTT	GTCCCCCTCA	240
CCTGGGGGTC	CCCGAAGTAG	ATCTGCAG				268

(2) INFORMATION FOR SEQ ID NO:825:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 411 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:825:

GAATTCGGCC	AAAGAGGCCT	AGATGTGAGC	TGGGGAAGGG	AGGGTGGCCA	GTAATGGGTT	60
TGTTATCAAG	CAGGTTTGTT	ATCACTGTGG	GTGACAAGCC	CCTTCCCAT	TGGGGCCTCT	120
GGGATCCAGT	GCAGAACATA	TCCCTCGCAG	GAGATGAGGA	ACTGGGGTGT	TCACAGAGTA	180
ATTCCCTCCC	TCTAGTTG	AGGGCTGCCT	CTGGGGGTGG	CTGAACTACC	TCATGCAGCC	240
AGAGAAAGTC	CTCAGGCAAT	GAAATACAGA	CACTGGCCAG	CCAGCACTGA	GGTGCCGAGA	300
CCTTACTGGC	TGGTCCCCAG	AGTGTCTGCA	GCATTGTGTG	AGATCTTAAA	CTGGCTAGAA	360
GGACGTAAC	AGCAGCACCT	GTTTCATAGG	ACGTGAAGAT	AGACGAGACA	G	411

(2) INFORMATION FOR SEQ ID NO:826:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 353 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:826:

```

GAATTCGGCC AAAGAGGCCT ACTAAAACCA TAATTGCTTG TTTTGCCTG TATCTGTCTT    60
TTCACGAACA TTTTGAGTTT AGCTCTGTCT TACATTCCCA TCCCTAAAGA TCATCAGGAC    120
TTTTGTTTTT GTGACAATGC TGGGACCAGA TTGGCCTTCA TCATCTCATA ACACCCTTAT    180
TTCCTATGGA AAAGTAAAT TGAATTATTC CAGATATGAT GACTTTAGGA TATCCTTTTC    240
CCTCTGTAC ATCCTTCATT GTATTTGTGT TTTCCCTTTG GTCTCCAACG TCCCACCAC    300
CCCCAATCCC TCCACGACTT TTAAGCCCTT GGAAGCCAAC TTGATTAGTC AGG          353

```

(2) INFORMATION FOR SEQ ID NO:827:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 428 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:827:

```

GAATTCGGCC AAAGAGGCCT ACCGTGAGTT CCCAGGGTGG CCGGGAGGGG GAGCTGCGGG    60
GTTACAGCG GCTCCTCTCA ACGTTCCTGG CTCGCTCCC GACTTCTCAG CCCTGCCTGG    120
AGGGGCTCAG CCACTGCTTT TAGCTGTCTG CTGGCTTTCC ACCCTTCCAG CCTGAACCTT    180
GACTTCCCCA TGAGGCCTTC CTGTGGCGGG GACACTCCAG GTCGCTGCAC CCCTTCTCTC    240
CTGAATTTCT GTAACGACAT CTAACTTTTA TTAAATTAAT TTATTTATTT AGAGATGGAG    300
TTTCTCTCTT GTTGCCCCGG CTGGAGTGCA ATGGCACCAT CTTGGCTCAC TGCAACCTCC    360
GCCTCCCAGG TTCAAGTGAT TCTCTGCCT CGGTCTCCTG AGTGGCTGGG ATTGCAGGCA    420
CCCATCTG                                     428

```

(2) INFORMATION FOR SEQ ID NO:828:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 144 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:828:

```

GAATTCGGCC AAAGAGGCCT AAGCGGTATT TCAGCCACAG AGTTGGTGTT GGGTTTACTT    60
ATCTATTTTG AATTTAAAAG GCTTATAAAT AAAGCAGTGA CACTGCTTAC TGGGAAATGC    120
TGACCAAAA AATGTTATCT TGCT                                     144

```

(2) INFORMATION FOR SEQ ID NO:829:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 95 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:829:

GAATTCGGCC AAAGAGGCCT AGCGGACTAG GAGTCAATAA AGTGATTGGC TTAGTGGGCG 60
 AAATGTTATG CTTTGTGTT TGGATATATC TGGAG 95

(2) INFORMATION FOR SEQ ID NO:830:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 610 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:830:

GAATTCGGCC AAAGAGGCCT AGTGGCTACC TAAATTGAGT ATCTGGCAAG AGTAAGATTA 60
 AGCAGTAATT TGTTCCAAAG AAGAATCTTC TACCAAGGAG CAACTTTAAA GAATGAAATT 120
 AACTTTCTTC TTGGGCCTGT TGGCTCTTAT TTCATGTTTC ACACCCAGTG AGAGTCAAAG 180
 ATTCTCCAGA AGACCATATC TACCTGGCCA GCTGCCACCA CCTCCACTCT ACAGGCCAAG 240
 ATGGGTTCCA CCAAGTCCCC CACCTCCCTA TGAACAAGA CTTAATTCAC CACTTTCTCT 300
 TCCCTTTGTC CCAGGGCGAG TTCCACCATC TTCTTTCTCT CGATTTAGCC AAGCAGTCAT 360
 TCTATCTCAA CTCTTTCCAT TGAATCTAT TAGACAACCT CGACTCTTTC CGGGTTATCC 420
 AAACCTACAT TTCCCACTAA GACCTTACTA TGTAGGACCT ATTAGGATAT TAAAACCCCC 480
 ATTTCCTCCT ATTCTTTTTT TTCTTGCTAT TTACCTTCCT ATCTCTAACC CTGAGCCCCA 540
 AATAAACATC ACCACCGCAG ATACAACAAT CACCACAAAT CCCCCACCA CTGCAACAGC 600
 AACCACCAGC 610

(2) INFORMATION FOR SEQ ID NO:831:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 564 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:831:

GAATTCGGCC AAAGAGGCCT AGGAAGAAAC AAGAACAAGA AAAAAGATTA TATTGATTTT 60
 AAAATCATGC AAAAAGTCA ACTCTGTGTT TATATTTACC TGTATTGCT GATTGTTGCT 120
 GGTCAGTGG ATCTAAATGA GAACAGTGAG CAAAAAGAAA ATGTGGAAAA AGAGGGGCTG 180
 TGTAATGCAT GTACTTGGAG AAAAAACACT AAATCTTCAA GAATAGAAGC CATTAGATA 240
 CAAATCCTCA GTAACTTCG TCTGGAAACA GCTCCTAACA TCAGCAAAGA TGTATAAGA 300
 CAACTTTTAC CCAAAGCTCC TCCACTCCGG GAACTGATTG ATCAGTATGA TGTCCAGAGG 360
 GATGACAGCA GCGATGGCTC TTTGGAAGAT GACGATTATC ACGCTACAAC GGAAACAATC 420
 ATTACCATGC CTACAGAGTC TGATTTTCTA ATGCAAGTGG ATGGAAAACC CAAATGTTGC 480
 TTCTTTAAAT TTAGCTCTAA AATACAATAC AATAAAGTAG TAAAGGCCCA ACTATGGATA 540
 TATTTGAGAC CCGCCGAGCT CGAG 564

(2) INFORMATION FOR SEQ ID NO:832:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 424 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:832:

GAATTCGGCC	AAAGAGGCCT	ANTCTGTTGA	GATTTCCCCC	TTTAGTTTCC	AACCTTCTCC	60
CCACCTACTC	ATTATCCAT	CCCTCCCACC	AATCATTTA	TCCATCCCAC	CCACTCATTT	120
ATCCATCCAT	CCCACCCACT	CATTTATCTG	TCCATCCCAT	CCACTCATTT	ATCCATCTAT	180
CCCACCCACT	CATTTATCTG	TCCAACCCAT	CCACTCACCC	ACCTACTCAT	TTATCCATCC	240
CATTCGCTTA	CCCATCCATC	TATCCCACCT	AACAATACAT	CCAACCATTG	CCTCACCTAT	300
GCATCTGTCT	GTTCAGCTGT	TCATCCATTG	ATTGATCTTT	CCATCCATTG	ATCCACTCAT	360
TCACACACCT	ACCTACCTAC	CCACCCGCTC	ATTTATTCAC	CCACCTACCC	TCTCATCCAT	420
CCAG						424

(2) INFORMATION FOR SEQ ID NO:833:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 383 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:833:

GAATTCGCCA	AAGAGGNCTA	GTCTACATCA	GCTAACTTTC	CTACAAGATT	ATCAAATTTT	60
ACACAGTATT	TTTCTGTATT	TAATGACTGC	CATGGTCTGC	AAAATTATGT	GATTAGACAA	120
TGAATGACGC	TTAAAGAAATG	ATGACCTATT	TTCTAAAGTA	CACTCAAAAT	ATTAAACTTT	180
AGAGACAAAG	CAAAATCTAT	CATAAAGTTG	GCTTCTGTTG	ATAGAAACAG	AGAGGTAGGT	240
TAATAATCAC	TGTCCTAAGA	TAAGCNAGAA	TGCTTAGAAA	TAAAAGTTGA	GACCCGTGCTT	300
CAAAAAAGAG	AAGTTGAACC	TTCCAGCCCT	GAGTTTCTAA	TATTACATGA	AAATTATGAA	360
AATGAGCATT	AAGCCAGTCG	CAG				383

(2) INFORMATION FOR SEQ ID NO:834:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 464 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:834:

GAATTCGGCC	AAAGAGGCCT	ACTACGTAGT	TGGAGCTNTT	TCTTCCCCCA	GCAAAGCCAG	60
AGAGCTTTGT	CCCCGGCCTC	CTGGACACAT	AGGCCATTAT	CCTGTATTCC	TTTGGCTTGG	120
CATCTTTTAG	CTCAGGAAGG	TAGAAGAGAT	CTGTGCCAT	GGGTCTCCTT	GCTTCAATCC	180
CTTCTTGTTT	CAGTGACATA	TGTATTGTTT	ATCTGGGTTA	GGGATGGGGG	ACAGATAATA	240
GAACGAGCAA	AGTAACCTAT	ACAGGCCAGC	ATGGAACAGC	ATCTCCCTCG	GGCTTGCTCC	300
TGGCTTGTTA	CGCTATAAGA	CAGAGCAGGC	CACATGTGGC	CATCTGCTCC	CCATTCTTGA	360
AAGCTGCTGG	GGCCTCCTTG	CAGGCTTCTG	GATCTCTGGT	CAGAGTGAAC	TCTTGCTTCC	420
TGTATTACAG	CAGCTCAGAG	CAGAAAGTAA	GGGGCTTACT	CGAG		464

(2) INFORMATION FOR SEQ ID NO:835:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 309 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:835:

GAATTCGGCC	AAAGAGGCCT	ACTGGGAGTT	CGGAGTGATT	GTTTCCTGTT	ACAGGCCAAA	60
AAATTTGTTT	GGTTACTTAG	TGGTAGCATT	TTGAGAGGAA	AGTTTACAGA	AAACTAGGGT	120
TATTTTGTGA	TTATGCTTGA	ATTGTCTTTA	TTGTTTCCAA	GGCATCTTTT	TTTTTTCCTT	180
CTAGTTATCA	AGATGTTAGG	TTCTGTGCCC	TTGTGGGCCT	TCCCTCTGCC	CAAAAAAAGC	240
ATGGATGAGC	AGAGTAATAT	CATTAAAATG	GCAGTCTTTG	TTAGTTTTTC	TAGAAAAGAT	300
GGTCTCGAG						309

(2) INFORMATION FOR SEQ ID NO:836:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 333 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:836:

GAATTCGGCC	AAAGAGGCCT	AAGGCAGGTT	TTTTTTTCTA	TGCTTATTGA	TTTAGCCTAT	60
CTATTTATAA	CAGTATAATT	CAGAATATAA	ATATGGAACA	AGTTTCATAA	GGAAGTTTAT	120
CTTAACTCA	GACATTATAT	CATTAATACT	TCAAATCTCA	TTATACCATT	ATGACCTGAA	180
TGCTACATTT	TTCTTCCTGT	ATGGAGAGCT	TAGGGAAAAA	TTGTGGCCTG	ATGTCCTCAT	240
CCATTCACCT	ATCATAGAGT	ACATAATGAT	CTCAAATATC	CAAAAATGGT	TATATTTCAGC	300
TGCATATTTT	TAAGAAAACA	GGCAGGACTC	GAG			333

(2) INFORMATION FOR SEQ ID NO:837:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 706 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:837:

GAATTCGGCC	AAAGAGGCCT	AATTGATTTC	CCATGAGTCT	TGTAATCTTT	GCTCTGCTGA	60
TTGCGTTTGC	CGTCTCTAGA	CCATCTCGCT	TCGAACAAAT	CGCAAAAGAG	GTGAATTCCA	120
GAAGAACGAC	CTGGATTGCA	GAAGAATCGG	CTCCGTTCCG	TGACTATGCT	CGTTTGATCG	180
GTACCCCTTC	AAATACGGTC	CCTCTTCGGA	GTAAGACTGT	CGATGTCGTG	AAGAACCCTC	240
CTGAGAGTTT	TAACGCATTG	GAAAAGTGCC	CGGAATGCAA	GTCCATCACG	GAAATCCGTG	300
ATCAAGGAGA	ATGTGCTTCA	TGTTGGGCAC	TGGGGAGTGG	CGGAGGTGGC	CACGGATCGT	360
CTTTGCATTT	CTTCCAACGG	AAAGGATCAA	TCCCGTCTCT	CTGCCGAGGA	TCTGTTGGGA	420
TGCTGTGACT	CTTGTGGAAT	GAAATGCAAG	GGAGGGTACA	CGGGGAATGG	CCTGGGAGTA	480
TGTACGTCAG	GTGGGAATTG	TGACGGGTGG	AGCGAATGGA	AACAAGGAAT	GGTGTAAATGA	540
GTACGCGTTC	CCGAAGTGCA	GTACCGGTAT	TCAGGGCTCC	TATCCTGAAT	GCTCTTCCAT	600
CCCCCTGAA	GATCCGGAGT	GTTCAACGAC	TTGCATAAAG	GGGTATCCCA	TCCCATATGA	660
TCAGGACCGT	CACAAAATGA	AGTCAGCCTT	CCAGCTGGCA	CTCGAG		706

(2) INFORMATION FOR SEQ ID NO:838:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 480 base pairs

- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:838:

```
GAATTCGGCC AAAGAGGCCT ATAAAAGTCT TATTTTTTAC TTTGTCCACT GGAATACATC      60
ATCGTTGGCC TATCATTCCA AACTCCCTAC AGTGTGGCTT CAGCTTATCT CTCTCTGTTT      120
TTTACAGGAA TCCTAAACTC TAACCCAGGG ACCCTCAACA TCTGTGCTGG GTGGACTGTG      180
GCCACATTTT CAGCTGGCCA GTGTAAGGGT TTTAGAGGCC CTTACATGAG AAGAAATACA      240
ATTTTAAAGT CTCTGAGATG ATGTGCTTCT TACATTTTGT GAATTAATAA GCCTCTTTAC      300
TTATAAAATG CTGGTAGTAA TAGATGGTCA TTATCTCACT GTCATTTGTG AAAGAAAAAA      360
CGATTGTAAT AGAATCTTGT CTATTTTTTT TCTCTAAGGG AGGTAAGTTT TCTCCCTAAG      420
CAAACTTTAT GGAATGCACA ATGCTTGGCT TTCACCTTCT TTTATTCTCA CTACCACCGG      480
```

(2) INFORMATION FOR SEQ ID NO:839:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 589 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:839:

```
GAATTCGGCC AAAGAGGCCT AGAATTAAGG TGTATTATGA GCAGTTGAAG ATATATAGGA      60
AATTTTTTCC CAAACCACTA TCTCTGCTCG TTCTATTTCAT TCAGTCTGTT TATGTTATTC      120
CTTCATTCAT TCATTTTATA GAACAGTGGA GTGCCTACTG TATGCATCTA TTGTTCTGGG      180
TCCTGGGGAA AGAAAACAAA GTTCTGTGCT TCATGGAAGT TACATTATAT TGGCGGAGAC      240
AGTAACAGAC AAACAAATGT AGCCTGTGTA CATGTGTTAC ATGAAAAGCA GGGTAGGGGG      300
CTGGGAGAGA GTAGTAGGGA GTGCTATTTT CGAGGTGGTT GTCAGGAAAG GCCTCACTGA      360
GGAGGTGGCA TTTTGAGTAG ACCTGAGCGC AGCGGGGGCG TAAGCCCAGG CAGCATGTGG      420
AGGAAGAGTG TTCTTGGTGA AAGGAACAAG GATAGAGGCC CGAAGCTAGA GAGCTCAGCA      480
TGATCAAGGA ACAGCAAGCC CCGTGTGGCT GGAATGGAGT GAGCAAAGGA ATGAGCAGTA      540
GAAGGTGAGT GAGTTGGGAG GTCACCAGAG ACCATGGCAA AGACTCGAG                    589
```

(2) INFORMATION FOR SEQ ID NO:840:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 430 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:840:

```
GAATTCGGCC AAAGAGGCCT AGGGACTAAC TGCAACGGAG AGACTCAAGA TGATTCCCTT      60
TTTACCCATG TTTTCTCTAC TATTGCTGCT TATTGTAAAC CCTATAAAGC CCAACAATCA      120
TTATGACAAG ATCTTGGCTC ATAGTCGTAT CAGGGGTCGG GACCAAGGCC CAAATGTCTG      180
TGCCCTTCAA CAGATTTTGG GCACCAAAAA GAAATACTTC AGCACTTGTA AGAACTGGTA      240
TAAAAAGTCC ATCTGTGGAC AGAAAAACGAC TGTGTTATAT GAATGTTGCC CTGGTTATAT      300
GAGAATGGAA GGAATGAAAG GCTGCCACGC AGTTTTGCCC ATTGACCATG TTTATGGCAC      360
TCTGGGCATC GTGGGAGCCA CCACAACGCA GCGCTATTCT GACGCCTCAA AACTGAGGGA      420
```

GGAGATCGAG

430

(2) INFORMATION FOR SEQ ID NO:841:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 101 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:841:

GAATTTTAC TTGTCTATAG TCTAGTATTG TTATACCATG TGGTCTTGTT ATAATCATGG 60
 TTTCCATTCT GTGAGTCTTC AGATTATAGG CCTCTTTGGC G 101

(2) INFORMATION FOR SEQ ID NO:842:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 479 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:842:

GAATTCGGCC AAAGAGGCCT AAATGGCGTC GTGGCATTGA GGGGCATCCC TCCTAGAACC 60
 TCCAGGAAAA GCTCGCGGAA GACGAGGTTT TCGCGAGAGA GAGGCTCCAA GCAGTCTGGG 120
 AAGTGTAGTC CAGTTGGCTT AGCAGTAGTT TCGTTGGGGG GGAGCCGAGG TTCCGGGAAG 180
 GGGCTAGGCC GGCTTGAAAA GAGATTATGA CTGTACCTTT TAACTTTGTA GCTGGAACAC 240
 AAGAAGTGTT TGTTTAATGA ATGACGTACA CATTTAAGAT CTGTTTGGAC GCGGAGGATA 300
 ATCCTGTGAA TTGCTAATAG TTCCTGGGT TTGGCCCTTA GTGTTGACTT CAGTATGCTG 360
 AGACGGAAAC CAACACGCCT AGAGCTAAAG CTTGATGACA TTGAAGAGTT TGAGAACATT 420
 CGAAAGGACC TGGAGACCCG TAAGAAACAG AAGGAAGATG TGAAGTTGT AGGAGGCAG 479

(2) INFORMATION FOR SEQ ID NO:843:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 270 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:843:

TGGAAGAGCT AACTCGTCTG GCCTTTGAGC TCTTTGCTGA AGAGCAAGCA GAGGGTCCCA 60
 ACCGCCTGCT GTACAAAGAC GGCTTCAGCA CCATCCTGCA CCTGCTGCTG GGTTCAACCC 120
 ACCCTGCTGC CACAGCTTTG CATGCTGAGC TGTGCCAGGC AGGATCCAGC CAAGGCCTCT 180
 CCCTCTGTCA GTTCCAGAAC TTCTCCCTCC ATGACCCACT CTATGGGAAA CTCTTCAGCA 240
 CCTACCTGCG CCCCCACAC GCATCTCGAG 270

(2) INFORMATION FOR SEQ ID NO:844:

- (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 413 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:844:

```
GAATTCGGCC TTCATGGCCT ACACAGCCAG TATCAGAACC TCAAGAAAAC GAGGACACTG      60
GGGACAGGGA CCAAAATTCA GACCACTTTT TTCTCTTGCC TTTCAATAGG ATATTCTGTT      120
AATTGAATTC ATCTGAAAAT CAAGGTCATT GCAGAGAAGT CAGCATTCTA GAGCACAGAA      180
CAGGGCAAAA CAGGACGAAA GATGGATTG  GAGACCAAAT GGAGAAGGAA GAACAGAGAT      240
ACGTGTGCTC CAAATATGAC ACCCAACTTC TTTACTCAGA GCAGTTACAT GTCAGATTAT      300
ATTTTAGTTT TTCATTTCTC CTATAGGCAT ACATACTACA AGTCTATAAT AGAAAACTAG      360
TGGCTGGGCG CGGTGGCTCA CGCCTTTAAT CCCAGCACTT TATGGCGCTC GAG              413
```

(2) INFORMATION FOR SEQ ID NO:845:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 126 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:845:

```
GAATTCGGCC TTCATGGCCT AGGCTCTGTC TACCAAAAAA AAAAAAAAAA GAAAGAAATC      60
TTGCAGTCTG AATACATGGT TGTGTTCTTA AGAAACCTGG TGATAACAAC GACAAAACTC      120
CTCGAG                                         126
```

(2) INFORMATION FOR SEQ ID NO:846:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 269 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:846:

```
GCTTCATGGC CTAGTTGAAT AGTCAGTTAG AAATGGAAAG AATGAAAGTT GAACAAGAAA      60
GACAAAGCCT TAGAACAAAA GACACAGCCC TAGAACAGAA GGACAAGGCC CTGGAACCAA      120
AAGACAAAGA CTTAGAAGAA AAAGACAAGG CCCTGGAACA GAAGGATAAG ATTCCAGAAG      180
AGAAAGACAA AGCTTTAGAA CAAAAGGGCA GAGACTTAGA GCAAAAAGAC ACAGCCCTAG      240
AACAGAAGGA CAAGGCCCTA GAACTCGAG                                         269
```

(2) INFORMATION FOR SEQ ID NO:847:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 264 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:847:

```
GCGATTGAAT TCTAGACCCA CCTTCAGACC ATCTCGGAAG ATCTAAAAAG CCTGACCATG    60
GACCCCTCACA AACTGCCCTC CTCAAGTGAA CAGGTGATTG TGGACTTGAA AGGTTCTGAT    120
TACAGCTGGT CGTATCAGAC GCCACCCTCT TCCCCAGCA CCACCATGTC CAGAAAGTCC    180
AGTGTCTGCA GCAGCCTGAA CAGTGTCAAC AGCAGTGACT CCCGGTCCAG CGGCTCCAC    240
TCGCATTCCC CCAGCATTCT CGAG                                         264
```

(2) INFORMATION FOR SEQ ID NO:848:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 342 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:848:

```
GAATTCGGCC TTCATGGCCT AGAACATTCC AAATTTTCTT GGTTC AATA CCCTTTTTTT    60
TCTTTTGAGG GGAAAAGAGG GGAGAAAAC AGGAGTGATG TCATTTCTTT TTCATGTATT    120
CCAATTAAAG AAACAAGGGC AGGTCGTATA ATGGCATATT AATACATTAG ACTTAATCTA    180
GAACCCCTGT AGCTTTTGA TGTGTTTAT TTCTTATCTC TTTGAATTCC TGTTTGGTTA    240
CTTGGCTTCC AATGGAGGTG AACTTAACAA CCATACTTGA ATATTCCGTC TTGACTTTGT    300
AAACTGTGGC TACTTGAAAT GAAGTTTATC TGGGGTCTCG AG                                         342
```

(2) INFORMATION FOR SEQ ID NO:849:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 249 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:849:

```
GAATTCGCCT TCATGGCCTA GGTTATTCTA TTATTGTAG CTGAAATAAT TCCTGGCACA    60
AATGACTTTG AAATTTATCT CTGAACATCC CAAATTCATT ATTAGCAAAT ATCAGAAACT    120
TCACATCACT CCAGTCTGTT ATTTACATG GTTTTCTTAG GGCTGGAAA GTTTTACAG    180
CTGGCTTTTA TTGACTGTGG TGGCTGATAT GCTGAAGAAT GGAGCTCATT GGTTTGAGGC    240
TTCTGCCAG                                         249
```

(2) INFORMATION FOR SEQ ID NO:850:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 417 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:850:

```

GAATTCGGCC TTCATGGCCT AGACATGAAT TCTTTGACTT GTGCTCATTG TTTCTGAACT    60
TATTGAGGCT TATATATATC AAATAAGGTT AATTTACACA ATAATTATTT TTAATAATTA    120
ATAAACTCAT TCATGTAGTA TATTTTAAAA CATTATTTCC TCTCATTTTT CCTTCTCTTT    180
TTTCTTCCCTA TATATTTTAA AGGTTTCAAG AGAAAACGGG CTTCAGTTTT TAAAAAATG    240
TAGACTTGCA TTTTACTGT GCTTATTTAA AATAATGGAT ATAATTATA TTAAGGTCCA    300
AATTATTTTA TTCACAGGAT AATCATGGTC TCTGATAAAA GATGCCACA TTTCTGTGTA    360
CTCACAGTTG TTGTATATTT TTCAATTTC AATTTGAAAAG TAAACTCAAC ACTCGAG    417

```

(2) INFORMATION FOR SEQ ID NO:851:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 239 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:851:

```

GAATTCGGCC TTCATGGCCT AGCTAGCTAT TGTAATACA AATAATAAAG TCTGCATTTC    60
CTGTCTTCTT TAAGCCTTCA TTGCCTATTA AATCATTACA TTTTAGATTA GATATTATAT    120
TTTGATCATT TGAGGAACCA AATTAAAAAT ATGGAATAAG TATGGCATTG AATTATACAT    180
GCCTATTGCT AATATATTCA TATTTTATAG GATTTAATGA AACAGTCTCC CAGCTCGAG    239

```

(2) INFORMATION FOR SEQ ID NO:852:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 489 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:852:

```

GAATTCGGCC TTCCCTAGGA AAGTTCTTCA CATCAGGAAA CATTAGATCA TATACAGAAA    60
CAAACTAAAT TTGATAAAGT AGTTATGGAG TTTTTCATG AGTGATGGT GAATAAATTC    120
AAGAAAACAT CTATTCGTAA GCAACAGACA AATAATCAAA CAGAAGTAGT TAAAATAATT    180
GAAAAAGATG TTATGGAAGG TGTACTGTA GATGATCACA TGATGAAGGT AGAGACAGTT    240
CATTGCAGCG CTTGCAGTGT GTATATCCCT GCTTTACATA GTTCAGTTCA GCAGCACTTA    300
AAATCTCCTG ATCATATCAA AGGGAAGCAG GCTTATAAGG AACAAATAAA AAGAGAGAGT    360
GTCTTGACTG CTACAAGCAT TTTAAATAAT CCAATAGTGA AGGCGCGATA TGAACGTTTT    420
GTTAAGGGTG AGAATCCTTT TGAAATTCAA GACCATTCTC AGGATCAGCA AATAAAAGGC    480
AGACTCGAG                                     489

```

(2) INFORMATION FOR SEQ ID NO:853:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 259 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:853:

GAATTCGGCC	TTCATGGCCT	ACTTCACTAA	CCTTTTTTGT	TTTAAATGA	ACCTGCTACT	60
TAAAAAAAT	ACACATCACA	CCCATTAAAA	AGTGATCTTG	AGAACCTTTT	CAAACCAGAT	120
GGAGCAATTGC	TTGCAAAATTT	TTTTTCTCTA	TGTTTGCATG	CGCTCGTGTG	TGTGTGTCCA	180
GGCAAGAACA	CATTTTATAA	AAATAAGAAC	ACTTGGGCTG	GGCATGGTGG	CTCATGCCTG	240
TGATCGCAGC	TCTCTCGAG					259

(2) INFORMATION FOR SEQ ID NO:854:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 217 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:854:

GAATTCGGCC	TTCATGGCCT	ACACAGCTGC	AGTCAACATC	CACAACTACC	GGGACCACAG	60
CCCTACTGTC	TGGCTGGTGT	GGCGTCCAAG	CCTTGGCGCC	TTCTACATCC	CTGTGGCTTT	120
GATTCTGCTC	ATCACCTGGA	TCTATTCCT	GTCGCCGGGC	TACGCTTACG	GGTCTCTCTG	180
GCACAGAAC	CCAAGGCGGG	CAACAGCAGG	GCTCGAG			217

(2) INFORMATION FOR SEQ ID NO:855:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 246 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:855:

GAATTCGGCC	TTCATGGCCT	AGACCTGCCT	CGAAAATAAA	TAAATAACCC	ACAGAGCTGA	60
GCACAGGCTT	CTTCATGCTT	TTCTTTTGA	AGGTGTCCTA	GATATATGAT	GATTTCTTTT	120
TTCTTTCACC	TCCTCTTGAT	TGTCACAAGT	AGCTTGCTTG	GCTCAGGAAC	AACAGAAGAG	180
AATAAAGAAA	ATGACCTCAG	ACCTTCCTTA	CCTCAGTCTT	ATGCAGCGAC	CGCAGCCAGA	240
CTCGAG						246

(2) INFORMATION FOR SEQ ID NO:856:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 334 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:856:

GAATTCGGCC	TTCATGGCCT	ACTGTCTCAA	AAAACAAACA	AACAAAAAGA	AAGAAAGAAA	60
AAGGAAAGGT	AGACTTATAT	AAAATAGACA	GTAAAGCATA	GGGCAGCAGA	AAGGAAAACC	120
TACTCGCAA	AAGTCACTTG	TTTTAACCTC	ATCCAGGAGC	TTCTCTAAG	TTACCTTTTA	180
TTTTTCACAC	GTCCTGGGTC	CAAAATCCAC	CATGCTCTGC	CGTATTCTTG	CCCTTTGCTC	240
TGTTGTTGAA	AGAGTCATGA	GCGAGGCCTC	TCTATGGATG	GTTCCAATGA	GCCACATGAA	300
CAAAGCCATC	GTCAGTAAGC	AGCCACTTCT	CGAG			334

(2) INFORMATION FOR SEQ ID NO:857:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 129 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:857:

```
GAATTCCTCTTGATCAACTTAATTCCTTTTCTTTATCTTCCTCCCTCACTTCCCTTTTC    60
TCCCACCCTCTTTTCCAAGCTGTTTCGCTTGTCAATATATTACTGGTAATGAGTTGCAGG    120
ATCCTCGAG                                                    129
```

(2) INFORMATION FOR SEQ ID NO:858:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 260 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:858:

```
GAAITCAAGCACCATAATTTGGCCACTCAGCTGTCATCAGGAACTAAGCCAACATTCCTT    60
TTCAGAAAAAGACTTTGGAGAGGGGCAAACACTTCTGACAGTCATACTGTGTACTTATTT    120
TAGAAAATAAGCTGCTCTCAAGCTTCAGTATCCAGTCAAAATATAATATAGAACTCTAGTC    180
TGTTTGTAGTCCTACTACAAATATTTTCAATAGACTACCAAGTTATGAAGTTCTCAC      240
ATTTTCCCGCATGCTCGAG                                                    260
```

(2) INFORMATION FOR SEQ ID NO:859:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 217 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:859:

```
GAATTCCTGTCCCACCTGCTGAATGAGTGC GTGCCAGCTGAACATCAGCGTGGCTTCGTT    60
CTTCAACACA TTTACAAAAGAGTAAAAATAAACAGTTTTTCTTCTCAA TTCTCCTCCC    120
TGCTTTTTTCCTTTGGAACCACATCATGC CCCAGTAAGTGCTTTCCTAGGTGAGAGGTG    180
TGTGTCCCAGGTTGAAGGCAAGGCCAGTGGTCTCGAG                                217
```

(2) INFORMATION FOR SEQ ID NO:860:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 107 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:860:

```
GAATTCGGCC TTCATGGCCT AGAATATTTT TATCATCCCA AAGCTAAAAC ATTAAAAAAT    60
TTAAAGTTTA TTCTTAGAGA TTGATGCAAC TTGCATATCT AATCGAG                      107
```

(2) INFORMATION FOR SEQ ID NO:861:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 279 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:861:

```
GAATTCTAGA CCTGCCTCGA GGGCATCCTT TACTTTTTTT TTTAATTCAG CACAAACCAA    60
ACAAAATTTT AAAATTTGAT GAGATTTGAA GTTGGACAAA AGTGTTATGC AGTTTTAAAA    120
ATTTTTTTTT TTTTTTTTGA GACCAGATCT CACTCTGTIG CCCAGGCTAG AGTGCAGTGG    180
CATGATCTCA GCCCAAACCT CTACCTCTTA GGTCAAGCG ATCCTCCCAT TTCAGCCTCC    240
CAGGTAGCTG GGAGGCTGAA ATGGGAGGAT CAACTCGAG                      279
```

(2) INFORMATION FOR SEQ ID NO:862:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 266 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:862:

```
TGTATTTTTA CGTGACCTGT TTTCCAGAAT TTATGATATT TCTATGGTIG GTATTCTCAA    60
TTTTGCAAAAT GTGTCTTGGT GTGGAACCTT TTCATTTGTT TTGCTGGGGA ATTGATGGAT    120
CCTTTGCATC AAGATGCTTA TATTTATTCT TCAGTTCTGG GAAACTTCCC TGTATTATTT    180
GTTTGATAAT TGCTTTCTCT CTGCTTCTC TTTTCCGTTT TTTGGAATTG CTGTTTGTG    240
TGTTGCATTA CTGCAGAGAA CTCGAG                      266
```

(2) INFORMATION FOR SEQ ID NO:863:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 355 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:863:

```
GAATTCGGCC TTCATGGCCT AGTGCTGTGG TAGTTTGTGC CTTTAGAGGG ATTTGTGTAT    60
CTCATATAAT TTAATTTTTT GACATTCAC TTTTACAAT ATTCTGTTAG AATTCCTTTA    120
ATTTCTGTAA GGTGATATCT ATACTTTCAT TTATGTCTAG TAACTTGAAT CTTCTCTCTT    180
```

TTGTTCTTTC	TCGGTCAAAC	TAATAATACG	TCAATTTTAC	TGATATATCA	GAAGAACCAA	240
CTTTCAAGTT	TATTAATTTT	CTCTATTGTT	TTTATTTTCA	CTACTTATCT	CCATGCTAAT	300
CTTTATTATT	TCCTCCTTCT	GTTTACTTTG	GGTTAAGTCT	GCTCTTTCAC	TCGAG	355

(2) INFORMATION FOR SEQ ID NO:864:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 205 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:864:

GAATTCGGCC	TTCATGGCCT	AGCTTACTTT	ACAATTCTGC	TGTTTGTC	GTGTTTCCTAT	60
AGTTTTTTTT	AAAGGTATGT	TAACTATTTT	TCCCTTTTGG	TTTATATTTG	TAGGAATCTT	120
TGCCCTTAAG	TGTGCCCGTG	CAGAAGAATT	ATTTAACATG	TTGCAAGAGA	TTATGCAAAA	180
TAATAGTATA	AATGTGGAGC	TCGAG				205

(2) INFORMATION FOR SEQ ID NO:865:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 368 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:865:

GAATTCGGCC	TTCATGGCCT	AGTCACTTGT	TCTGTAGAAT	ATGTTCAAAT	CTGATTITGT	60
CTTTTGTGTT	TCTTGTGTTA	TTACCTTGTT	CCTCTATCCC	CTGTTTTTTC	TGAAAAATGAA	120
AGTTAGCTTA	GAAGTTTCAT	TCCATTCTGG	TTCAAAATGC	TTAAGTGCTT	TATGTCGTGT	180
CATATTAGGA	AACACAGTAT	CTAGTGGTCC	CAATTTTAGT	GATTCAAAAA	TCAGTCTCTA	240
GGTTCAGAGA	TTAATCAGTA	GATTCAGAGA	TCTCTCCATT	GTAAATTTCT	TAATTAACCT	300
TTGAATTGCT	AATGTTCTGT	TCACTGATCG	TTGTGGCCCA	AATTATTTAT	TCACTAGGG	360
GACTCGAG						368

(2) INFORMATION FOR SEQ ID NO:866:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 144 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:866:

GAATTCGGCC	TTCATGGCCT	AAGGAGCAGC	AGGAACATGG	TACATAAAAT	CATCCTGCTT	60
CTTATAATGG	CAGGAATCAG	TGGGATATGG	TATTTGTGCA	GCATGCTGGG	GCATCCACTA	120
GAAAGGCCTG	AAGGAAGACT	CGAG				144

(2) INFORMATION FOR SEQ ID NO:867:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 268 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:867:

```
GAATTCGGCC TTCATGCGAT TGAATTCTAG ACCTGCCTTG AGCCCTCCA CCCCCAAATC    60
CTTCCTCTCC TCCCAGTCCC ACCCTTGCC CCACGGAGTC CTGGGGACGC AGTGCCCCAG    120
CTGGGAAGAG GCGGGGATCG GGCACCTGGT CCTCCTTGTC CCCGCTTCT TGGGGGCTTG    180
CTACTTTTGG TCTTCTATTG TGTGGCTTTC TGAGTATTTG AACCCAGTC CTGTGTCACC    240
TTCCTTTTTC CTCGCTGTC CCCTCGAG    268
```

(2) INFORMATION FOR SEQ ID NO:868:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 384 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:868:

```
GAATTCGGCC TTCATGGCCT ACAGAACTAT AATTTATCTT AGTTTAAGCC ACTGGTAAGT    60
GTAATTGTAA TTGTAATTTG TTACATCTGC TATAGTGAAA CTAATACTGA AATTAGAAA    120
AGATGGGTAA CTTATTATGT GGTGAAGTTT AAAAAAGATA AGTAACTCGT TGAAGATCAC    180
ATAATTAGAA AAGAAAGCAG TAGAGCTTGG CCTTGAATC AACCAGTGTG ACTCCAGAGC    240
TTGTAGAACA GAATAACCAC CTCCAAGGCC AGCTGAATCT GACCACAGTC TGGTGAATT    300
CTAGTACATC TCGTTGAGAA GTGGGATTGC CGGAGGGGAG TTGGTTATTC ATGAAGGTGA    360
TGATGTTTGT CCAATGTCCT CGAG    384
```

(2) INFORMATION FOR SEQ ID NO:869:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 273 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:869:

```
GAATTCGGCC TCATGGCCTA CTGGAGAGT TTGTGAAGGA GAGTGGCAA CATAGCACGG    60
ACTAATGCCA CGAACAACAT GAATCTAAGC CGAAGCAGCA GTGATAACAA CACTAATACT    120
TTGGGGAGGA ATGTGATGAG CACAGCAACT TCTCCTCTTA TGGGTGCTCA GAGTTTCCT    180
AATTTGACCA CACCTGGTAC TACATCAACA GTGACTATGT CAACATCCAG TGTTACTAGC    240
AGCAGCAATG TAGCTACAGC AACAACTC GAG    273
```

(2) INFORMATION FOR SEQ ID NO:870:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 278 base pairs
 (B) TYPE: nucleic acid

(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:870:

GAATTCGGCC TTCATGGCCT AGGTCAGGAG CCTTCTTGGA GTCCCAATTC TGCATCCCCA	60
AATGATAAAG ATGGGGTGAA GGAAGTGA GGCATGAGTT GGAGAGTCCT CTTGCTTGAG	120
GTCCCTGAGA ATGTGGTCCC GGAGTATCCG GATCACTGGA AGCCAGGACT TCAACGCATT	180
GGGTAGTGAG GGATGGAGGG AGGGGCTGGA CGCAGAAGCA GGATGAAGTC TGCTGGGTGT	240
GAGCCTCCAA GGAGGTAGAA CAAAGAGGGC AACTCGAG	278

(2) INFORMATION FOR SEQ ID NO:871:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 270 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:871:

GAATTCGGCC TTCATGGCCT ACCAGACTCC CATAATAATA AACCTGGTA ATAAACAAAG	60
GAACTCCTTC CAGTTTCAGT GTATCAACCA CCACGTACCA GATAAAATCT TATTTACCT	120
TTCACAATTT ACCAGTGTG GGCTGTGAAT TAATATTTTT ATTTTCTGT GCATTCATAA	180
ATTAAGATTA TTTTATTGTA TTGTAAGTGT AATTTTGAGA CTAAAGTCTA AAAACAAGAC	240
ATCATGAAAT GGAGCTGGAG GATACTCGAG	270

(2) INFORMATION FOR SEQ ID NO:872:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 339 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:872:

GGTTTAGAAA GGGCACAAC AGTGCAAACC TGTTTCATGAA CCTTTACATG TCATGAACAG	60
GGCAGAATGC TTCAGGAAAG AATTGTCGAA AGTAAAAAAG CAAATAATGG ATGCAGCTTA	120
TTCTAGTTAT TGAAGAATCC AACGGGATGG AAGCTAAATG TAGCACATGG CATGGGCGAT	180
GTCTCAACAG TGAGTGGGAT AACAAAGTCGT TTTAATGGTT CAGGGCCAAT AACCGGGGAG	240
GGTGAGGAAC GGCATCTCTG TTTTGAGTAA ACAAGAGTGA TTTCTTCCC TGACTTGAA	300
AAATGAAACC TTTGGGGAGA TAGAGGAAGC GATCTCGAG	339

(2) INFORMATION FOR SEQ ID NO:873:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 245 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:873:

GAATTCGGCC TTCATGGCCT AACCTTTAAA CCCTAAAATC CAGGAAAAGA AAATAAATAC	60
ATTATCATGG ACCTGAGGGA TTTTACCTG TTGGCTGCTC TGATTGCCTG TTTAAGGCTG	120
GATTCCGCAA TAGCTCAAGA ACTTATTTAC ACTATTAGAG AGGAATTGCC TGAAAATGTG	180
CCCATAGGAA ACATACCAAA GGATCTGAAC ATTTCTCACA TCAATGCTGC CACAGGGCCA	240
CCTCG	245

(2) INFORMATION FOR SEQ ID NO:874:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 233 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:874:

GAATTCGGCC TTCATGGCCT AGTTTCTTC ACTGGCATTG ACAAATTTAA GCCATTGCTG	60
CCTCATTAGC CTTGTATTTT GTGTGCATAT CATATATCCA GACCTGTATG TTCACTTTAA	120
GCATTCTTAT ATCACACTGT CTCCTCATCT ACCATATGGT AAATGTTAAA ACTCCACATT	180
TGTCTGCATC AGGGAAAATG CATGGGCACA CATCTCCCC CCCTTCCCTC GAG	233

(2) INFORMATION FOR SEQ ID NO:875:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 278 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:875:

GGACAGGAAG TCAACTTCAA GCAGATTGAC TTGAAACGGG ATCTCATTTA GGAAGCATAA	60
GTGTCCAATC AAAAAGTGTG TATTTTITTA AATTTGGAAG ATACTCAAGT TCCAGTTGCT	120
TATCATTTCT CTTCACTTTC TGAAAACCTG GCAATCCCAT GTGGACTTCT GGTAGAATGA	180
GCAATGCAAA GAACTGGCTT GGACTTGGCA TGTCTTGTA CTTCTGGGGG CTGATGGACC	240
TTACGACCAC CGTTCTCTCG GACACCCAC ACCTCGAG	278

(2) INFORMATION FOR SEQ ID NO:876:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 290 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:876:

GAATTCGGCC TTCATGGCCT AGTCCTCAAA TTAGTTATTG CATTATTTTC AAGTATTGTA	60
TTATCATTTA TTGATATTGG TAGTGTTCCT TAAAACAGGA AATACATAAT TTGGCATCCT	120
TATTCCTAGT TTTATACCTA AAGAACCTAG TAACTCACAG GAGAACGTAG TAACATTATC	180

ACTTGTTAAT CAAGCTTTCA GTGAAACAGT TTATCAAACC ATTTTTTTTA TTTTGATTCA 240
GCAAATTTGT CAACTAAATT TAATTTAAAA GTAGAGGTCC AAAGCTCGAG 290

(2) INFORMATION FOR SEQ ID NO:877:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 260 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:877:

GAATTCGGCC TTCATGGCCT ACTCAAATTG GAAAGAAAGA TTCCTTGAGA CTTACTTTTA 60
AAATCTAAAG TGTGAGGNN AANCAGAGT AAAGNCCAGA CTCATTNNAC CTTGATGTC 120
TGCATAGATC CAGNAGTTGT ACATTTTACC TAACAACATC ACTTTTGTG AACATTCCAA 180
CTCCAGAATG ATCCCCAATC ACCCTAATCT CAGAATGCTG GAATGATGTC TGTGGCAA 240
CCCAGGACTC CAACTCGAG 260

(2) INFORMATION FOR SEQ ID NO:878:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 180 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:878:

GAAGCGACCA TCGTCCAAC AGGTATGGCT GGTTTTGTG CAATGAGAGA ATGTCCACTC 60
GCAATGATGA GCCTGAGAAG GCAAGTCGTC CGTTTGATGT GGATCGCGAT GGTTTTGTTA 120
TGGGTGAAGG TGCCGGGATT CTTATTCTGG AATCACTCGA ACATGCTGAG AAACGTGGAG 180

(2) INFORMATION FOR SEQ ID NO:879:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 497 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:879:

GAATTCGGCC AAAGAGGACT ACACAGAGCC CCTGTTTGGG AATTTGAGAT TCTGTGTCAT 60
GCTGGTTTTTC CTTTCAGAAT TGCTTGAAAT CGAGTTCTCT TAGCCACTGG ACACCTAGTT 120
TTCAGGAGAA TGTTCCAAGA TTGTTTATAT ATACAAAATG GCAAAAGTAC TGTTTTTCGA 180
ATTGATAATT CAAGCAAAGG CTTCTCTTTA CTGTCACTGA TTTTTTTTGT TTTTATTTT 240
GTTTCCTTGT TTCTATTTCC TTGAAGCTTT GAAGGGAGGA GAAGCAGAAA ATTTTGTTTA 300
TGTTTGTTAA AAATCAGAAC TACTTAATGC TTTTGGCCAC AGCATATTTT CTTGCCCTGT 360
GGAGCCGTTA GGAAGATTAC CTATGTCCTA ATCTTCAACC TGAGAAGATT TTTGACTCTT 420
GTGTCTACTG TTGATTGTTT GCTTGAGTTC TCAAAGACCT GTGGCCAGGT ATTTTAAAAA 480
GTCGTCTATT TCTCGAG 497

(2) INFORMATION FOR SEQ ID NO:880:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 322 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:880:

```

GAATTCGGCC AAAGAGGCCT AGCAAAATCA AATTCAACCC ATGAGTCACA GTGCTTTCTT      60
CAACAAGAAA ACATTGAACA CAGAAAGCAA TTGTGAATAT AAGGACCCTG GGAAAATGAT      120
TCGCACGAGG CCCACCTTG CTTCTTCACA GAAACAACCT CAGAAATGTT GCTTATTTAC      180
AGAAAGTTTG AAGCTGAACC TAGAAGTGAA CGGTGAGAAAT GAAAGCAATG ACACAGAACA      240
GCTTGATGAC GTTGTGGGT CTGGTCAGCT ATTCAGCCAT AGCTCTTCTG ATGCCTGCAG      300
CAAGAATATT CACACAGGAG AG                                     322

```

(2) INFORMATION FOR SEQ ID NO:881:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 481 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:881:

```

GGCCACCTG TGTCCTGGTT GAGGGTCTCC AGGGTTCTTT GGGGCCGAG GCCAATGGTG      60
GCAGAGTCTA CATAGAACTA TGCTTCGTGG TGTTCTGGGG AAAACCTTTC GACTTGTTGG      120
CTATACTATT CAATATGGCT GTATAGCTCA TTGTGCTTTT GAATACGTTG GTGGTGTTGT      180
CATGTGTCTT GGACCATCAA TGGAGCCTAC AATTCAAAAT TCAGATATTG TCTTTGCAGA      240
AAATCTTAGT CGACATTTTT ATGGTATCCA AAGAGGTGAC ATTGTGATTG CAAAAGCCCC      300
AAGTGATCCA AAATCAAATA TTGTAAAAG AGTAATTGGT TTGGAAGGAG ACAAATCCT      360
CACCACTAGT CCATCAGATT TCTTTAAAAG CCATAGTTAT GTGCCAATGG GTCATGTTTG      420
GTTAGAAGGT GACAATCTAC AGAATTCTAC AGATTCCAGG TGCTAGGCCT CTTTGCCGA      480
A                                     481

```

(2) INFORMATION FOR SEQ ID NO:882:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 387 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:882:

```

GAATTCGGCC AAAGAGGCCT AGGGAAGAGT GGAACAAAAG TCAGTCGTAC ATTCAGCTAC      60
ATCAAGAATA AAATGTCTAG CAGCAAGAAG AGCAAAGAAA AGGAAAAAGA AAAAGATAAG      120
ATTAAGGAGA AGGAGAAAGA TTCTAAAGAC AAGGAGAAAG ATAAGAAGAC TGTCAACGGG      180
CACACTTTCA GTTCCATTCC TGTGTGGGT CCCATCAGCT GTAGCCAGTG TATGAAGCCC      240
TTCACCAACA AAGATGCCTA TACTTGTGCA AATTGCAGTG CTTTGTGCCA CAAAGGCTGC      300
CGAGAAAGTC TAGCCTCCTG TGCAAAGGTC AAAATGAAGC AGCCCAAAGG GAGCCTTCAG      360

```

GCACATGACA CATCATCACT GCCCACG

387

(2) INFORMATION FOR SEQ ID NO:883:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 443 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:883:

```

GAATTCGGCC AAAGAGGCCT AACGCAGCCA TGGCTCGTGG TCCCAAGAAG CATCTGAAGC      60
GGGTGGCAGC TCCAAAGCAT TGGATGCTGG ATAAATTGAC CGGTGTGTTT GTCCTCGTC      120
CATCCACCGG TCCCACAAG TTGAGAGAGT GTCTCCCCCT CATCATTTTC CTGAGGAACA      180
GACTTAAGTA TGCCCTGACA GGAGATGAAG TAAAGAAGAT TTGCATGCAG CGGTTCAATTA      240
AAATCGATGG CAAGGTCCGA ACTGATATAA CCTACCTGTC TGGATTCATG GATGTCATCA      300
GCATTGACAA GACGGGAGAG AATTTCCGTC TGATCTATGA CACCAAGGGT CGCTTGCTG      360
TACATCGTAT TACACCTGAG GCGGGCATAA CACAGCAAGA CGAGAAGACC CTATGGAGCT      420
TTAATTTATT AATGCAAACA GTA                                     443

```

(2) INFORMATION FOR SEQ ID NO:884:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 353 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:884:

```

GAATTCGGCC AAAGAGGCCT AAACATCATT TGTACTCTAA TCCAATCAAA GAAGAAATGA      60
CTGAGTCTAA GTTCTCTAAG TACTCTGAAA TGAGTGAGGA AAAACGAGCC AAACCTCGTG      120
AAATTGAGCT CAAAGTTATG AAGTTTCAGG ATGAATTGGA ATCTGGGAAA AGACCTAAAA      180
AACCAGGCCA GAGTTTTTCTAG GAGCAAGTAG AACACTACAG AGATAAACTT CTTCACGAG      240
AGAAAGAGAA AGAGTTAGAA AGAGAACGAG AAAGAGACAA GAAAGATAAA GAAAAATTGG      300
AATCTCGCTC CAAAGACAAG AAGGAAAAAG ATGAGTGTAC TCCGACAAGG AAG          353

```

(2) INFORMATION FOR SEQ ID NO:885:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 475 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:885:

```

GAATTCGGCC AAAGAGGCCT ACAATTTTTT GCCTTTTAC CCTTCTGTCC TTTAATGCCA      60
TCTCTTTCTC AATTATTTTC TCTATTTT TTTCTGAGCA GACTTATACA AAAAGGAACA      120
TAAATTAAAT TTGCCAAATA TCAAAAGAGA GGAACTTTTT ATTTTTTATT TTTTGGAAC      180
GGAGTCTCAA TCTGTCTCCC AGGCTGGAGT GCAGTGACGC AATCTCAGCT CACTGCAACC      240
TCCGCCTCCC AGTCAAGAG ATTCTCTGCC TCAGCCTCCC GAGTAGCTGG GATTACAGGT      300

```

ACCCTCTACC ATACTCAGCT AATTTTGTG TTTTAGTAG AGACTGGTTC ACCATGTGGG	360
CCAGGCTGGT CTCGAACTCC TGACTTCAGG TGTCTGCCT GCTTTGGCCT TCCAAAGTGC	420
TGGGATTATA GCGTGAGCC ACCACTCTCC ACTGAACTTT TTAATCTTAG AGCAG	475

(2) INFORMATION FOR SEQ ID NO:886:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 484 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:886:

GAATTCGGCC AAAGAGGCCT AGGGGTGTTA ATTAGCTCAG CTGTAGCAAT CATTTCATAA	60
TGTATATCAA AACATCCCAC TGTATACTTT ATACTTTTTT ATAAAAATAA ATATTCTTAC	120
AAAAGGACAG GCGCTGTGTC TGTCTGGCTC ACCATTGTAC CCAATACCCA ACAGGGTGCC	180
AAGTACCCAA TACCCAACAG GGTGCCAAGG AACACAAAAG GCACTCAAAA TATGTTTGTT	240
GATTGGAGTT TACAAGGAAG AAAGGTATTT TCTTATCCCT CTCTCCCTT CCCACCCAAA	300
CATAGCTTCT TCTAAGAAAA GAAACTGAGG CTGGGCAAGG TTAAAAGCTA GTCCTTGGA	360
CTTTTGCATC CAACTCAGT TTACCTGTGC CTTAAACCAG ACTTCATCAA ACTTCAGTCT	420
TCACAAGTCA CTTCAACCAT TTTGCTCTAC CTACTTACTG CCTGTGTAGG CCTCTTTGGC	480
CGAG	484

(2) INFORMATION FOR SEQ ID NO:887:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 184 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:887:

GAATTCGGCC AAAGAGGCCT AGTGGGACAT AAGGCTGGAA GGTAGCACAC ACAGCACCAT	60
ATTCTTTTTT ACTTGCATGC GAGTTACTTT GAGTGCTTTT CTCTTTACCA AATATATGAG	120
TTCTATTACT ACATTCCTTT TCTTTGTTTG TTTTAGTGAG ACAGGGTCTC GTTCTGCCTC	180
CCAG	184

(2) INFORMATION FOR SEQ ID NO:888:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 78 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:888:

GAATTCGCCC AAAGAGGCCT AGTTTGCGAC TTACTTTTAA TTTCAAATCA GCTGCAGATG	60
TTTGGGAGCC TTCTCGAG	78

(2) INFORMATION FOR SEQ ID NO:889:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 546 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:889:

```
GAATTCGGCC AAAGAGGCCT AATGGAAGAT ATGCTGAAAG ACTTTCCTCT TGGAGAACAC      60
TTATTATTGG TTGGCAACCA GGGTGTAGGA AAAACAAGA TTGTTGACAC ATTCCTTCAC      120
CTGCTCAACA GACCCCGAGA ATATATTAG CTACACAGGG ATACCACAGT ACAAACCTCT      180
ACGCTTCAGC CTCGGTTAA AGACGGACTT ATTGTATATG AAGACTCACC TTTGGTTAAA      240
GCAGTAAAGT TGGGTCATAT TCTGGTAGTA GATGAGGCTG ACAAAGCTCC AACAAATGTC      300
ACGTGTATTT TAAAACTCT AGTAGAAAAT GGAGAAATGA TTCTAGCAGA TGGAAAGACGC      360
ATTGTTGCAA ATTCTGCTAA TGTGAATGGA AGAGAAAATG TTGTAGTGAT TCATCCTGAT      420
TTTAGGATGA TTGTTCTGGC AAATAGACCT GGATTCCTT TCCTAGGCAA TGATTCTTTC      480
GGTACCTTAG GTGATATTTT TAGCTGCCAT GCAGTTGATA ACCCCAAACC CCACTCGGAG      540
CTCGAG                                         546
```

(2) INFORMATION FOR SEQ ID NO:890:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 427 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:890:

```
GAATTCGGCC AAAGGGCCTA GAGATTCAT GTATTTCTCT TCACTTCCAA GAGAGTGGAT      60
AGAATGGAGA AATCTAGATT GATCTTTACA GCTCCAGATA AAGGGACTAA AAATATTGGT      120
TTAAAATATT AAAGGTTAAA GAAAGAGACT GTTGGTTTCT TTCAAAGTGA TTAAATTTA      180
AACTAGGTTT TTATTAATAA GTTTTGAAA TGGGGTAACC ATTTTCTCT CATATCAAGG      240
ATATGTACAT ATTTCCCAT TCCCATAAT TAAAAACAAA CAACTCCCAT CCACTTCTTA      300
TAAATAGTTC TTAACCTGGG CTTAGTAACA ATGTATATTG TGCCAGTAAT ACAGAAAAGG      360
TGGGAGTATA AAGACCATCC TGTCTGTGA GAATCCTATA GAACCAAGGT GCTGGATTAT      420
GGTGGTT                                         427
```

(2) INFORMATION FOR SEQ ID NO:891:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 346 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:891:

```
GAATTCGGCC AAAGAGGCCT AATTTTATTG AAATGCTTA TGTATGTCAA AGGAGCCCAC      60
AATTCAGCT ACACAACTTT TTGTATTGAA AGAACTCATA CTTTTGTAG CTTTATTTTC      120
ACATTTAATT TAAAGTGACT TTTAGCACTA AAATGCCTAG AAGATTTTAC TCCAGACCTA      180
TAAGGAAATG TTTAGTTTTT ATGAAAAATG ACAAGTCGAT GGTAAACTT CTCATGTCTT      240
TGGTGCTTTG GCCCTAATAG CACTGGACAA CACCACGACC ACATGGAAAC ATATTTTGG      300
```

AAGCAAACT TTAATTTTAT ATAACGTATG CTATGGAGAA CTCGAG

346

(2) INFORMATION FOR SEQ ID NO:892:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 95 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:892:

GAATTCGGCC AAAGAGGCCT AGTGGAGAGT GAAGCTTAAG ACTGCAATTG CAGAAAAAGT 60
CCATGAGGAG AGAAGAAGGA GAAAAGGGG AAGAG 95

(2) INFORMATION FOR SEQ ID NO:893:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 424 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:893:

TTTTTTTTTT TTTTTTTTAA ATACTTCGCA TACTCTCCAA TGCCCCAAAA TAGCAAGGTG 60
GTAAAAAGAG AATTAGATGA TGATGTACT GAGTCTGTCA AAGACCTTCT TTCCAATGA 120
AGACGCAGCT GATGATGCTT TTAAGACAAG TGAACCTAATT GTTGATGGCC AGGAAGAGAA 180
AGATACAGAT GTTGAAGAAG GATCTGAAGT CGAAGATGAA AGACCAGCTT GGAACAGTAA 240
ACTACAATAC ATCCTGGCCC AAGTTGGATT TTCTGTAGGT TTAGGAAATG TGTGGCGATT 300
TCCATACCTA TGTCAGAAGA ATGGGGGCGG TGCATATCTT TTACCATATT TAATACTACT 360
TATGGTAATA GGTATTCCCC TTTTTTCTT GGAACCTCTT GTGGGTCAAA GAACCACTCT 420
CGAG 424

(2) INFORMATION FOR SEQ ID NO:894:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 390 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:894:

GCCAAAATCA AGCAAAGTAT GAAGAAAGAT AAAGAAGGGG AAGAAAAAGG GAAGCGAAGA 60
GGATTCCCCA GCATCCTGGG ACCCCCACGG AGACCAAGCC GTCATGACAA CAGTGCAATT 120
GGCAGAGCCA TGGAATAACA GAAGGCGCGC CACCCTAAGC ACTTATCCAC ACCCTCATCT 180
GTGAGTCCTG AACCTCAGGA CTCTGCCAAG TTGCGCCAGA GTGGGTTAGC AAATGAAGGA 240
ACAGACGCTG GATACCTGCC TGCCAATTCC ATGTCTTCTG TAGCTTCAGG GGCCTCTTTT 300
TCCCAGGAAG GAGGGAAGA GAATGATACA GGATCAAAGC AAGTTGGAGA AACATCAGCA 360
CCTGGAGACA CCTTAGATGT CACCCTCGAG 390

(2) INFORMATION FOR SEQ ID NO:895:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 595 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:895:

```

GAATTCGGCC TTCATGGCCT AGTAGCTGGT ATTTATTCCC CAAAGTAATA ATGTTGAAGT      60
ATGGGTCTCA TCATTCCCAT ACACAGAAAC ACAAACACT TTGATCATAA ACTTTTTTCT      120
TCAGAAGCCA AACTAACTTG CAGAATAATA GAGCCACTGG TTTAATGTTT CCTCAAGATA      180
GGTTTTAGTG TAAGCTAGTA TTCTGTGTGT TCGTAGAAAT GATTCAATAC CTGCAGCTGG      240
TGAATTAGGA ATGTATTATT TTGCCTTTTT TATATTAGAT GAGGTGCAAA AATTTTAATG      300
CTAGTCAGTA TGCACCACCA CAGGAAAGTT AGATCCCAT AGCACTTGAA ACTACAGCTT      360
TGGAAACTTA GGCTAAGTTA ATTTGGATTT GTTACTTGAT TCACCTACTG ACCTTTTCIT      420
TTGTTTGAAG TGCTTATCAG CATAATGAGC TAAGTGTCAT GCATATTTGT GAAGAAACAC      480
CCTTTTGGT CCCTTTGGG ACAGAGAGGT ACTCCTTGAT CTTTATGAAT GACAGGTTAC      540
TGTTTTCCT TATTGCTTAA CTTAATGTAG TGAAATAAAG CAGACGAGGC TCGAG      595

```

(2) INFORMATION FOR SEQ ID NO:896:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 341 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:896:

```

GGCTGATCCG CGTGAACATG GAGGACTTGC GAGAGCAGAC TCACACCCGC CACTATGAAT      60
TGTACCGACG CTGTAAGCTT GAAGAGATGG GGTTCAGGA CACTGACCCT GACAGCAAAC      120
CCTTCAGTCT TCAGGAGACA TATGAAGCAA AAAGGAATGA ATTCCTGGGA GAACATGCAGA      180
AGAAAGAAGA AGAAATGAGA CAAATGTTTG TTATGAGAGT GAAGGAGAAA GAAGCTGAAC      240
TTAAGGAGGC AGAGAAAGAG CTTACGAGA AGTTTGACCT TCTAAAGCGG ACACACCAAG      300
AAGAAAAGAA GAAAGTGAA GACAAGAGA AGGAGCTCGA G      341

```

(2) INFORMATION FOR SEQ ID NO:897:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 382 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:897:

```

GAATTCGGCC TTCATGGCCT ATGCCCTAAT TTTGCTGTTT GCCCTCGGAT CTCTGGGTTT      60
GATTTTTGCG TTGACTTTAA ACAGACATAA GTATCCCTT AACCTGTACC TACTTTTTGG      120
ATTTACGCTG TTGGAAGCTC TGACTGTGGC AGTTGTGTGTT ACTTTCTATG ATGTATATAT      180
TATTCTGCAA GCTTTCATAC TGACTACTAC AGTATTTTTT GGTTTGACTG TGTATACTCT      240
ACAACTAAG AAGGATTTCA GCAAATTTGG AGCAGGCTG TTTGCTCTTT TGTGGATATT      300
GTGCCTGTCA GGATTCTTGA AGTTTTTTTT TTATAGTGAG ATAATGGAGT TGGTCTTAGC      360
CGCTGCAGGA GCGCCACTCG AG      382

```

(2) INFORMATION FOR SEQ ID NO:898:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 422 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:898:

```

GAATTCGGCC TTCATGGCCT ACGAGCCTCA CATCACTTGT ACAAGCCACC TGGGAGAAGT      60
GGCCCTCAGG AAGATCCTAA AACCAATACA CAAATACAAC TTTTTCATTT CATTAAATACA    120
TCAAGTTCAT ATAAGAGTCA AACAGGTAAA AGCAGCATCC CAAACTGTTT TCTCCTCGTA    180
CATGTCAGTT CCACGATCCT CAGTCTCATA AAGTCAGGGA CTAGAGACCA ATGTAATTAT    240
CAATACGTAC CTGCCTTTGA GTGAACCTTC AATGCCAACT AGGAAGGGCG CTTCCAAAAC    300
GACGTTATTT GTAACCTCTA GGAAGACAAA CACGGGTCAG AACCCATACT CTGCGGGCCT    360
TGAAATGGAA AATCTCTCCT CTAGACAGAC TCATCCTGGC CGTAAATATC AGGAGACTCG    420
AG                                                                                   422

```

(2) INFORMATION FOR SEQ ID NO:899:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 806 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:899:

```

NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN    60
NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN    120
NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN    180
NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN    240
NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN    300
NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN    360
NNNNNNNNNN NNCNTTGCA NNTTTGGTTC CNTTTNTTCC TTGTTTNTTT TTTTGACAA    420
TATTTCAAGN TTTACNAGGC ATACATCAAT CCAAGTTCGG AATTTTAATT AAGAATTCGG    480
CGTTCATGGC NTAAAAGAA TTTGATGCTAC CCCCGGAAAT GCCAGAAGAG GANATACATT    540
GAAATAGACN GTGATGAAGA GCCCAGGGGT GAATTACTTT TTNTTCGGGA CANTGAACGC    600
NTTCATAAAA AGCCAAAGTC TGACAAAGAG ACAAGAGTNG CAANTNCAAT GGNTGGANAG    660
ACAGACCGAA AGAATTTTNT GAGGAAGAAA ACCAAAACAA ATCCATNNTC CAGNTCGACA    720
AATNAAGAGA AGNAAANACA GAAGAACTTT ATGATGATGC GGTATAGCCA GAATGTCCGG    780
TCAAAAATA AGCATTCCTT CTCGAG                                                                                   806

```

(2) INFORMATION FOR SEQ ID NO:900:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 319 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:900:

```

GAATTCGGCC TTCATGGCCT AGGAGGGCCT GTTTCAGAAT TGCTTTAATA GTTCCCTTCC      60
AGTTGAATTT ACCTTTTGCA GGAGCCTCAT CGTCTTCTGG TTCTCCGCCC TCAGGATGCT      120
CTGGGAGCTT CATCTTTTTC TTCTTAGAAT CTGTTTCAAC TTCCGAGTGC CTCGCTTCC      180
TCTTCCCTGC CCCACGCGTG CCTCTTCCTC ACTGGCGCTG TCCTTGCCTG GCTTCTTCTT      240
CTTGCTCCTC TTCCCTGCAG AGCCATTGGC CTCAGGGACT TCCTCCCCAC CAGCCTCAAG      300
GTCAGCCTCC TGCCTCGAG                                     319

```

(2) INFORMATION FOR SEQ ID NO:901:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 297 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:901:

```

GAATTCGGCC TTCATGGCCT AAGAAAAGAC AAGGTCCCCA TAAGAGTGGC GAGAGGAACA      60
GAGCCAGGAC ATCGGAAAGC AAGCCCTGTG GTTCCCAAAC CGCAGAAGAG GGAGCTCTGA      120
TGTTAGACAA GCCACCCTCC TACAAGCGAA GGGAAAGTAA CTTTGAGCAA AAATGAGCAA      180
CAGAAAATGA GATCAAGGTC AGATCTCATA CAAAGTTGCA AGATGAAAGA ATGAGCAGCA      240
GAATAACCTC CCTGTGATGT GGAAAGTGTG CCAGGAAAAC AGACCCAAAC GCTCGAG       297

```

(2) INFORMATION FOR SEQ ID NO:902:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 429 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:902:

```

GAATTCGGCC TTCATGGCCT AGGGGTTCTT TCTCCTGCAC GATGCCAGGT GGTACTGGAA      60
TCTGCTGAGT GGGATTCCGT GGTGAGGATC ATAAGGGCAA ATTTCAAAGG CTTCTGGCTC      120
CATGAGAAAT TCTTGAAGCA GGGTATCTCA CTGCTAGAGT CTAACGGAAA TGCTTCTTGT      180
GGAGAAGCCC TTTTGTAAAG AGGATGGAGT TGTCTCTGTC CCAGTTTGGG CCCTTGGGAT      240
TCTGTAGGTG ACGGTCTTAA CTGTGCTCTT GTTCTCTAGG ACTGTGAGTG GTGGATTAGA      300
AGAGAGATGA GGAGCTGCCA AAAGCAGCTA CACAGAGAAC AGAGTTAGCA AATGGCACCC      360
GAGACAGAAC TATAGCAGAT GCAAGAGCCA AAAACCCACA GCCGCATTGA ATTCTAGACC      420
TGCCTCGAG                                     429

```

(2) INFORMATION FOR SEQ ID NO:903:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 307 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:903:

```

GAATTCGGCC TTCATGCCTT GTAACCATCA GGTAGATACA GCACCAACGG TAGTGGCTCT      60

```

```

TTATGACTAC ACAGCGAATC GATCAGATGA ACTAACCATC CATCGCGGAG ACATTATCCG      120
AGTGTTTTTC AAAGATAATG AAGACTGGTG GTATGGCAGC ATAGGAAAGG GACAGGAAGG      180
TTATTTTCCA GCTAATCATG TGGCTAGTGA AACACTGTAT CAAGAACTGC CTCCTGAGAT      240
AAAGGAGCGA TCCCCTCCTT TAAGCCCTGA GGAAAAAACT AAAATAGAAA AATCTCCAGT      300
CCTCGAG                                           307

```

(2) INFORMATION FOR SEQ ID NO:904:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 322 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:904:

```

GAATTCGGCC TTCATGGCCT AGGACCTCGT AGGTCCCTAC AGCACCACAG TGCTCTTCAT      60
CTCTCAGAGG ACTGAACCAC CAGCCAGCAC CAACAGAGAC ACTGTGGAAA GCACAAGGAC      120
CCGACGGGCA CTGAGTGACG AGCAGTGTGC TGCCGTCATC CTTGTGCTGT TTGCTTTCTT      180
TTCCATTTTG ATTGCCTTTA TCATTCAGTA CTTTGTAAAT AAGTGAAAAT ATAACTTTAT      240
TTTTTAACTC TATTACATTT TATTTGTCA TGACTAAAAA TTATTTCTGT ATTGCTTTNA      300
TAAAAAACAG TGGCACCTCG AG                                           322

```

(2) INFORMATION FOR SEQ ID NO:905:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 318 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:905:

```

GAATTCGGCC TTCATGGCCT AAAAAACAC ATAATTTGAA TCAACACAAC CACCCACAGC      60
CTAATTATTA GCATCATCCC TCTACTATTT TTTAACCAAA TCAACAACAA CCTATTTAGC      120
TGTTCCCAA CCTTTTCCTC CGACCCCTTA ACAACCCCTT TCCTAATACT AACTACCTGA      180
CTCCTACCCC TCACAATCAT GGCAAGCCAA CGCCACTTAT CCAGTGAACC ACTATCAGGA      240
AAAAAACTCT ACCTCTCTAT ACTAATCTCC CTACAAATCT CCTTAATTAT AACATTCACA      300
GCCACAGAAC AACTCGAG                                           318

```

(2) INFORMATION FOR SEQ ID NO:906:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 553 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:906:

```

GAATTCGGCC TTCATGGCCT ACAGGAAACA TACAAAGCTG CTCATAGTGG GAGTCTTTTT      60
GCTCATGTTT GTGTGCGGCG TCTTCTTCAC TCGACCTTCA GGCAGCTACT TCATCAGACT      120
GCTGAGTGAC TACTGGATAG TCTTCCCAT CATCGTCGTT GTCGTATTTG AAACCATGGC      180

```

TGTATCCTGG	GCCTATGGGG	CCAGGAGGTT	CCTTGCAGAC	CTGACGATCC	TGTTGGGGCA	240
CCCCATCTCT	CCCATCTTTG	GTTGGCTGTG	GCCCCATCTG	TGTCCAGTTG	TGCTGCTAAT	300
CATCTTTGTG	ACCATGATGG	TTCATCTTTG	TATGAAGCCG	ATCACCTACA	TGTCCTGGGA	360
CTCAAGCACC	TCAAAGAGG	TGCTTCGACC	ATACCCACCG	TGGGCACTGC	TCTTGATGAT	420
CACCCTTTTT	GCCATTGTCA	TCCTCCCAT	CCCTGCATAC	TTTGTATACT	GCCGCATACA	480
TAGGATTCCC	TTCAGGCCCA	AGAGCGGAGA	CGGGCCTATG	ACAGCCTCCA	CATCCCTACC	540
CCTAAGTCTC	GAG					553

(2) INFORMATION FOR SEQ ID NO:907:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 557 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:907:

GAATTCGGCG	TTCATGGCCT	AGTAGAGAAG	ANNNTATTGC	NGTGACAATG	AGGTTTCTAC	60
GTTCAAGTGGC	AAGAGTTTTT	GTTATTCTGA	GTGTGGAAAT	GGCTTCATCC	AAAAAGAAAA	120
ACAACTTTAT	TCCACAGCCA	ATTGGAAAAAT	GCAAGCGTGT	ATTCCAAGCA	TTGCTACCTT	180
ACGCTGTGGA	AGAATTGTGC	AACGTAGCAG	AGTCACTGAT	TGTTCTGTGC	AGAATGGGGA	240
TTGCTCGTCC	AACTGCACCA	TTTACCCTGG	CTAGTACTAG	CATAGATGCC	ATGCAGGGCA	300
GTGAAGAATT	ATTTTCAGTG	GAACCACTAC	CACCACGACC	ATCATCTGAT	CAGTCTAGCA	360
GCTCCAGTCA	GTCTCAGTCA	TCCTACATCA	TCAGGAATCC	ACAGCAGAGG	CGCATCAGCC	420
AGTCACAGCC	CGTTCGGGGC	AGAGATGAAG	AACAGGATGA	TATTGTTTCA	GCAGATGTGG	480
AAGAGGTTGA	GGTGGTGGAG	GGTGTGGCTG	GAGAAGAGGA	TCATCATGAT	GAACAGGAAG	540
AACACAGGAA	GCTCGAG					557

(2) INFORMATION FOR SEQ ID NO:908:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 429 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:908:

GAATTCGGCC	TTCATGGCCT	AAAAAAGTCA	GCCAGGTGTG	GTGATGTGCG	CCTGTGGTCC	60
CAGGTATTCA	CGAGCTGAGG	TGGGAGGATC	ACCTCAGCCC	GGGAGGTGGA	GGTTGCAGTG	120
AGCCCATATC	CCGCCACTGC	ACTCCAACCT	GGGAGACAGA	GCGAGACCCT	GTCTCCAAAA	180
AAAAAAAAAA	AAATCCGGG	ATCTATTTAT	GTAACACTA	GAATCTTAAG	TTCAGAATTT	240
ACTCCATAAG	AGTATATAAA	AACTTACTG	TGATTTTATC	CATGTTTTTC	CTAATATATA	300
ATAGGTCTAA	GTCTTGTA	TTTCTGTCCT	GTCCACAGAG	CCTTGAAAAT	AATTTAGAGC	360
TCAGTCATT	AGTTTGATT	TATGTATAAA	TTGAAATATA	TTAATTACTT	ATTTATAGTG	420
CAGCTCGAG						429

(2) INFORMATION FOR SEQ ID NO:909:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 180 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:909:

GAATTCGGCC	TTCATGGCCT	AGTCCCTGAA	AAAAAAAAAA	GAAAAAAAAA	ATTTAAATAG	60
AGGAAATACT	AGCTAAGTTT	AATGTAGGCC	AGTTCTAAAA	TAATGATTTA	TTGCTGCTGT	120
TGTTACATAA	TTTCTTAAA	TATTTTAAAG	ATTGCACACT	GTCTGCTCGT	AGGCCATGAA	180

(2) INFORMATION FOR SEQ ID NO:910:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 387 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:910:

TACCTGCAGT	TGTACCGGGT	CACATGTGAC	CAAACCTACC	TGCTCCGATC	CCTGGATTAC	60
GTAAAAAGAA	CACTTCGGAA	TCTGAATGGC	CGCAGGGTCA	CCTTCCTCTG	TGGGGATGCT	120
GGCCCCCTGG	CTGTTGGAGC	TGTGATTAT	CACAACTCA	GAAGTGACTG	TGAGTCCCAG	180
GAATGTGTCA	CAAAGTGAGT	TTTAGAACTG	GAAACATTTT	CTCCCAATTC	CCAGTGAAG	240
CTCTTGCTGT	AGAAAGATAT	TCAGAAAGGA	AACTATTTTT	CCATTCATCC	ATTGTTGTAA	300
ACAGATCACT	CCAAAATGTT	AATCTTGAGC	ATAGTGGTGG	GATCATATGC	CCTCTTTTAA	360
TCCAAGCATG	TGTGTGCCGG	TCTCGAG				387

(2) INFORMATION FOR SEQ ID NO:911:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 428 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:911:

GAATTCGGCC	TTCATGGCCT	AGTGTCTTGA	CAATGGTTGA	GCTGGTTTGG	ATCACAGGAA	60
CATTTATTTG	ATAACGATGG	AAGGAAAAAA	CAGTGCTGTA	ATAAGTCGCT	TCTTAAATG	120
TGGGGTGTTA	TTAAAAGAAT	AATGGGAAAG	TGCTACTGGG	AAGGCAACA	CAGCAATTGT	180
ACTCTACAGA	CAGGGATTCT	CCTATTGGCC	ATTTTAGAAA	CATTCCCCAG	GCAACATGAG	240
ATTATCCAAG	TGGAGAGAAC	CAGAGTCAGA	GCCATTTTCT	AGGCCGACAG	AGCAGCGCTC	300
CAGATGAGAT	ACTGAAGGTT	TGAACTCAAG	TGATGGCAGT	AAGATCAGAA	AGCAAAAGGC	360
ATATCACAAA	GAAACCATAA	GATTCTCCAT	CTGGATATAT	AGAAGATAAA	TGGAAAGAGA	420
AACTCGAG						428

(2) INFORMATION FOR SEQ ID NO:912:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 357 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:912:

GAATTCGGCC	TTCATGGCCT	AGAAAACCAA	ATACTGCATG	TTCTCACTCA	TAGGTGGGAA	60
CTAAACAATG	AGAACACTTG	GACACAGGGC	TGGGAACACC	ACAACCTCTT	TTTCAGTTCA	120
TAACTCATAG	TCCACGATCC	ATGTGCTCTT	TGACTTGACT	TTTCTTAAAC	TCCTATTTTA	180
TGTGCTTCTG	ACTTGCTTTC	CCTTCTTATT	TGTAATCCAC	ACTAGCCTCA	AAAGATGCAT	240
GAACGTGTA	TTTCACTTC	CAGGGCCATG	GATAGTTGAA	CATCTAGTAG	TGAATTCCT	300
CTTTCAGAAG	ATAAATAAAT	TCATTCATTC	CCCTGGATCT	AGAAGGACAC	ACTCGAG	357

(2) INFORMATION FOR SEQ ID NO:913:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 262 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:913:

CAGCTGGGT	GGCAGAGCAA	GACTCCATT	CAAAAAAAAA	AAAAAAAAAGC	CCAAGTCACT	60
TGCTGTTTCT	GGATCCAGTA	ACGCTGCCTC	AAATTTGATT	CAGTCACCTC	ACATACTTAA	120
CATTCTGGCT	TTCTTTTCT	CTGTTTCTGG	CATCTGGAGA	TTTCTTTT	TGTGTGTGA	180
GCTCATTTAT	GGTATCTGT	TGTATGTTT	AATACAACCA	TTCTTGGCTG	AGGCTGCCAC	240
ATCTAGAGCT	GGTAAACTCG	AG				262

(2) INFORMATION FOR SEQ ID NO:914:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 471 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:914:

GAATTCGGCC	TTATGGCCTA	GTGATATGTC	ATAATCCCTT	CTGTGGGCTG	GGCCACATA	60
AGGAGAGTCA	AATCACTTGG	GTGCTGGGAA	GAGGCACATG	TCACACGTGC	AAGAAGGTCC	120
AAGGATGAGA	TTAAAAATTC	CACAAAGGTC	CAAATTCCTAG	GGCCAGACA	GAAGAGAAGA	180
GTCACATCAT	CTAGATGATG	AATGAAAAGA	TATGTCATTA	TTCTCCTTIG	GGCAGTGCTT	240
CTGCAGAAAA	GTTGCACCTT	CTAGGTGTTG	GACTCAGCAA	TATATCACAA	TGTCTGCAGT	300
ATTTTGGAAG	GAGAGGAGAG	TCACCATTAC	TTAGGTGCTA	GGCCAGCAA	TACATCTCAA	360
GCACTTCTTG	GGCAAAGCCC	AAGCAGTAAA	AAAGAGTCAC	ATTACCTAGG	TTCTGGGTAT	420
AGCAATATGT	CACAAATGCC	CCTAAGAAGA	GGGCCAGGA	AAAGACTCGA	G	471

(2) INFORMATION FOR SEQ ID NO:915:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 452 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:915:

```

GAATTCGGCC TTCATGGCCT AGAGTGCCTG ACCTTCCCTG TTCAAGAATT TATAAAGATT      60
CCTAACAGCA ATTCTAGAAA AAGGATAAAG ACCTCCACTT GGCTTTCAGA AGCCTCCAGC      120
ATCTGGCCCA AGCTAATACA GCCTTAAAC TAATCTGGTT ATAGCCCAGC CCCTCATTTT      180
ACAAAGAAAA CTGAGACCCC TGGCTATCTA TTAACCTGCT CCAACCAAAC ACATCATCTA      240
TCCCCTCTCT TCCTCCAGAT AACACTCACT TACCAGGCTA CAGTGAGGTC CACGTCTCTG      300
ATATGAGGCT CCTGTCCACA AGTTTGGTAA CCTTCATCTG CCTCATCACC AGTGAGCACC      360
CAGCACTTAG CACTGTGCCC GACACAGAAA TGAACACTCT GCTCCTCCGG GCCGGCGTGG      420
GTGCGCCGCT GCGGCCACCG GCAGCGCTCG AG                                     452

```

(2) INFORMATION FOR SEQ ID NO:916:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 463 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:916:

```

GAATTCGGCC TTCATGGCCT ACAAATGGTT GGTTTATGTT ATGATAGCAA TTTTCTGCAT      60
AGCATCAGCA ATGAGTCTGT ACAACTGTCT TGCTGCACTA ATTCAATAAG TACCATATGG      120
ACAAATGCAG ATTGCATGTC GTGGCAAAAA CATGGAAGTG AGACTTATTT TTCTCTCTGG      180
ACTGTGCATA GCAGTAGCTG TTGTTTGGGC TGTGTTTCGA AATGAAGACA GGTGGGCTTG      240
GATTTTACAG GATATCTTGG GGATTGCTTT CTGCTGAAT TTAATTAAAA CACTGAAGTT      300
GCCCCAATTC AAGTCATGTG TGATACTTCT AGGCCTTCTC CTCCTCTATG ATGTATTTTT      360
TGTTTTTATA ACACCATTC TACAAAGAA TGGTGAGAGT ATCATGGTTG AACTCGCAGC      420
TGGACCTTTT GGAAATAATG AAAAGAATGA TGGAAATCTC GAG                                     463

```

(2) INFORMATION FOR SEQ ID NO:917:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 390 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:917:

```

GAATTCGGCC TTCATGGCCT AACGTACTTG AAAAGGCTTT CCTTTACACT TCCAGGACCA      60
AACAGCAACT TCCTGCCACA CACTTCCACC CTATCACTGG GAGAAATCCT TTTCTGGACA      120
TGAGCCTTTG ACCTGGGTGG GGCAGAAAGA ACCACAAACT CCATCTCCCA ATAGAAGTTT      180
GAAATTCACT CAGCTTTTCC TTTCATGCTG TTTGTTGCCT GCTTGTTGCA CTCCTCCTGC      240
CCCAGAACTG CAAGATTTTT AGCTTCACCC CTTTCTGAGA GTAATGTTAT CTTTATCAG      300
AATCAGTATC AGTTCCCCTG TATTCTGTGC TTCATCGAAT TTGCAAGACT GACCTCTTTT      360
AAGCATTTAA TTCACTCCCA GAATCTCGAG                                     390

```

(2) INFORMATION FOR SEQ ID NO:918:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 360 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:918:

GAATTCGCCT	TCATGGCCTA	CAGTGACAAT	GAACAAAACC	AGCACACCAC	ACAAATGAGT	60
GATGAGGAAG	AGGATGATGA	TGGCTGTGAC	CTTTTGTCTG	ACTCTGAGAA	GGAGGAGGAA	120
GATATTGAGG	ACATTGAAGA	AAATACTAGA	CCTAAAAGAA	GCAGACCTAC	ATCGTTTGCA	180
GATGAGCTGG	CTGCCCGCAT	CAAGGGGGAT	GCCATGGGTC	GAGTGGACGA	GGAGCCGACA	240
ACCTTACCCT	CAGGAGAAGC	AAAACCTCGG	AAGACACTCA	AAGAGAAGAA	GGAAAGGAGA	300
ACTCCTTCAG	ACGAGTCTTC	ATCATCCAAA	CCTGGAAGA	AAATCCCAGC	AGCTCTCGAG	360

(2) INFORMATION FOR SEQ ID NO:919:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 279 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:919:

GAATTCGGCC	AAAGAGGCCT	AGTGCTATTG	AAACATTGGT	AACAGCAATT	TCTTTAATTA	60
AACAATCCAA	AGTCTCTGCA	GATGATCGTT	GCAAAGTTCT	TATTAGCTCT	CTGAGGATT	120
GCCTTCATGG	AATCGAGTCC	AAGTCCTATG	GGTCTGGATC	CAGACGTGAA	CGATCAAGAG	180
AACGGGACCA	TAGTAGATCA	CGGGAAAAGA	GTCTCGCCA	TAAATCTCGG	AGTAGAGATC	240
GCCACGATGA	CTATTACAGA	GAGAGAAGCA	GAGGTCGAG			279

(2) INFORMATION FOR SEQ ID NO:920:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 470 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:920:

GAATTCGGCC	TTCATGGCCT	ACAGAACTTG	AAGCCATCAA	TAAAAGAGTA	AAAGACACTA	60
TGGCACGATC	AGAAGATTTG	GACAATTCCA	TTGATAAAAC	AGAAGCTGGA	ATTAAGGAGC	120
TTCAGAAGAG	TATGGAGCGC	TGGAAAAATA	TGGAAAAAGA	ACATATGGAT	GCTATAAATC	180
ATGATACTAA	AGAACTGGAA	AAGATGACAA	ATCGGCAAGG	CATGCTATTG	AAGAAGAAAG	240
AAGAGTGTAT	GAAGAAAATT	CGAGAACTTG	GATCACTTCC	CCAGGAAGCA	TTTGAAAAGT	300
ACCAGACACT	GAGCCTCAAA	CAGTTGTTTC	GAAAACTTGA	GCAGTGCAAC	ACAGAATTAA	360
AGAAGTACAG	CCATGTTAAC	AAAAAGGCTT	TGGATCAGTT	TGTAAATTTT	TCCGAGCAGA	420
AAGAAAAGTT	AATAAAGCGT	CAAGAAGAGT	TAGATAGGGG	CCCACTCGAG		470

(2) INFORMATION FOR SEQ ID NO:921:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 455 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:921:

```

GAATTCGGCC TTCATGGCCT AGCAGTGGCG TTGGAAGGAG ACGCGGAGGG GCAGTGGCGT      60
TGGAAGGAGA AACGGAGGGG CAGTGGCGTT GGAACGGGGG CAGTGGCGTC GGAAGGGGAC      120
GCGGAGGGGC AGTGGCGTTG GAAGGAGAGA CCAGGGCCGC GGGGCTGCTT CTTGTAAAGG      180
GCCAAGCTGT GAGGACTTCG GGCTTTGCGG CCGCTTTTGT CTATGTCCCA TCTCCTTCTT      240
TGTTTTGTTT TTCTCAAACC CTTTAAAAAC GTGAAAACCA TTTCTAGCTT GGGGGCCCTA      300
TAAAAATAGG CCTCGCTGGC CCTAGTTTGA TGACCCCTGA AACAGACAAT TCAAGGAGAA      360
GCTTAGTGAA AGAGTCACTT ATAGCTTCAT AAAAATAAGA GAAGATATAG TATCCATAAA      420
ATAATAATAA GATTGTATCC ATGAGGTTCC TCGAG                                     455

```

(2) INFORMATION FOR SEQ ID NO:922:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 333 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:922:

```

GACATGACCC TGGACAAAGA ACAAATAGCG AAGGATTTGC TTTCAGGGGA AGAAGAGGAA      60
GAGACGCAAT CATCTGCTGA CGACCTCACC CCGTCGGTGA CCTCCACGA GGCCTCCGAC      120
CTCTTCCTTA ACCGGAGTGG ATCTCGTTTC CTGGCTGATG AAGACAGAGA GCCTGGCTCT      180
TCTGCCTCCT CCGACACCGA GGAGGACTCT CTTCTGCCA ACAAATGTAA GAAGGAGATC      240
ATGGTGGGAC CTCAGTTCCA AGCTGACCTC AGCAACCTGC ACTTGAACCG GCACTGTGAG      300
AAGATCTACG AGAACGAAGA CAAGCTACTC GAG                                     333

```

(2) INFORMATION FOR SEQ ID NO:923:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 263 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:923:

```

GAATTCGGCC TTCATGGCCT AAGCAGCCTT TCACCAGGGC TCCATCTGTG AAGAGTCTCA      60
GCCATGACTT TGAGCTGAGC TTGGGAGAAG TAAAGCAACT GTTAAGGCCA GCCCTTGCCC      120
CTCAGACCTG CCATGAAAGG AATGAGCCCT AGACTGACTC CTGCAGCACC CCCGGGACAG      180
GCTGGGACCA GCTGTTTGTC TCCAGGTGTC AGAGTCCCTC CTCCTCCTCC AACCTCTCCA      240
TTGAATTCTA GACCTGCCTC GAG                                     263

```

(2) INFORMATION FOR SEQ ID NO:924:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 467 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:924:

```

ATTTTGGGGA CCAAGAACCT GTACAAGGAT TTGTGATGAA CTTTTC CAAT GGGGAAATTA      60
TCGACATCTT CAAGCCAGTG CGCAAGCACT TTGATATGCC TCATGATATT GTTGCATCTG      120
AAGATGGGAC TGTGTACATT GGAGATGCTC ATACCAACAC CGTGTGGAAG TTCACCTTGA      180
CTGAGAAATT GGAACATCGA TCAGTTAAAA AGGCTGGCAT TGAGGTCCAG GAAATCAAAG      240
AAGCCGAGGC AGTTGTTGAA ACCAAAATGG AGAACAAACC CACCTCCTCA GAATTGCAGA      300
AGATGCAAGA GAAACAGAAA CTGATCAAAG AGCCAGGCTC GGGAGTGCCT GTTGTCTCA      360
TTACAACCCT TCTGGTTATT CCGGTGGTTG TCCTGCTGGC CATTGCCATA TTTATTCGGT      420
GGAAAAATC AAGGGCCTTT GGAGCAGATT CTGAACACAA ACTCGAG      467

```

(2) INFORMATION FOR SEQ ID NO:925:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 310 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:925:

```

GCCATCCTCT GACAAAAGAA AGAATATGTA CTCAGGTGGA GAGAATGTTC AGATGAATGG      60
GGATACGCCC CATGATGGAG GTCAAGGAGG AGGAGGACAT GGGGATTGTG AAGAATTGCA      120
GCGAACTGGA CGGTTCTGTG GTGGACTAAT TAAAGACATA AAGAGGAAAG CGCCATTTTT      180
TGCCAGTGAT TTTTATGATG CTTTAAATAT TCAAGCTCTT TCGGCAATTC TCTTCATTTA      240
TCTGGCAACT GTAACAAATG CTATCACTTT TGAGGACTG CTGGGGATG CCACTGACAA      300
CATGCTCGAG      310

```

(2) INFORMATION FOR SEQ ID NO:926:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 287 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:926:

```

GAATTCGGCC TTCATGGCCT AGTGGAGACC TGGCCAAGGT ACAGAGAGCT GTGTGCATGC      60
TGAGCAACAC CACAGCCATT GCTGAGGCCT GGGCTCGCCT GGACCACAAG TTTGACCTGA      120
TGTATGCCAA ACGTGCCTTT GTTCACTGGT ACGTTGGGGA GGGGATGGAG GAAGGTGAGT      180
TTTCAGAGGC CCGTGAGGAC ATGGCTGCCC TTGAGAAGGA TTATGAGGAG GTTGGTGTGG      240
ATTCTGTTGA AGGAGAGGGT GAGGAAGAAG GAGAGGAAAA CCTCGAG      287

```

(2) INFORMATION FOR SEQ ID NO:927:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 332 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:927:

```

CCGCGCACCA ACAACAGCAA CAACTCCACT GCGCCGGGCT GAGGAGCAGG AATTAGGAGC      60

```

TCGCGAATAA	TATGAAAGGG	ATCCGCAAAG	GGGAAAGCCG	AGCAAAGGAA	TCCAAACCCCT	120
GGGAGCCTGG	CAAGCGAAGA	TGCGCTAAAT	GTGGCCGCCT	AGACTTCATC	CTGATGAAGA	180
AAATGGGGAT	TAAAAGTGA	TTTACGTTTT	GGAACCTCGT	CTTTTTATTG	ACGGTGTCTT	240
GTGTGAAAGG	TAGGTCTGCT	TTGGGGGTCC	CCTCCGCTTT	GGATGGAGGT	GGGCTGACTT	300
GTAGATGGAG	AGAGGCTGGC	AGCTTACTCG	AG			332

(2) INFORMATION FOR SEQ ID NO:928:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 330 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:928:

AGCCTGCCAT	CCCAGGCTTC	AGATTGGAGC	CGATACTCAA	GCAGCTTACT	GGAATCCGTC	60
TCTGTTCTTG	GAACACTAAA	TGAGGCTGTT	GTAATGACTC	CATTTTCATC	GGAATTCCTCA	120
GGAATTTTCT	AACAGACCCT	CCTGGAGCTG	TCCAAAGGAA	AGCCCTCCCC	GCATCCCAGA	180
GCCTGGTTTG	TGTCTCTTGA	TGGAAAGCCA	GTTGCACAAG	TGAGGCACTC	CTTTATAGAC	240
CTGAAAAAGG	GCAAGAGAAC	CCAGAGCAAT	GACACCAGTC	TGGACTCTGG	GGTGGACATG	300
AATGAGCTTC	ACTCAAGTAG	AAAGCTCGAG				330

(2) INFORMATION FOR SEQ ID NO:929:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 266 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:929:

GAATTCGGCC	TTCATGGCCT	AGTGAGTGGG	TGATATCTGT	AAAGTGCATT	GTCTTCAGTT	60
GTAGGTGGGG	TAGGTGTAAG	GGAATGGCGG	GGGGGCATGC	AATATGGGTG	AGGGAGGGCA	120
GTGCCCTTCT	CATCCCAGAC	CTGAGCCCCC	CCCAAACCT	GTCTGGACTT	TGATCAGGAT	180
AAGAACGTTG	CAGGGCGAGG	CAAGTTCCTG	AAGCCGAAGA	GGTCTGGGCT	GGGGCCTACT	240
GGAGAAAGGG	CATAGACTGG	CTCGAG				266

(2) INFORMATION FOR SEQ ID NO:930:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 319 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:930:

GCGAAAATAA	CCTTTTCTAA	TGAGGATGTC	TGATACTGTT	ACTGTAAAAG	ATGAAACTGC	60
AACAATGAAG	GATTTGGAGG	CAGAAGTGAA	AGATACAACC	AGAGTTGAAA	ATCTTATCAA	120
ATCAGAAAAC	TATGGGAAGA	TTTGGTAGA	GAAGAATGAA	CATTGTATTG	AGAACAATAT	180
AGATTTGCAG	GAGAAAATTC	AGATCCAGTT	AACACAATCA	TTTGAGAAAG	AAGAGAAGCC	240

CTCAAAAGAT GAAGCAGAAA AAGAAAAGGC CAGTGATAAG TTGCCAGAA AAATGTTATC	300
AAGAGATCCC AGTCTCGAG	319

(2) INFORMATION FOR SEQ ID NO:931:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 255 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:931:

GAATTCGGCC TTCATGGCCT AAAGAAGAGC AGGAAGTCCA ATGTGGCCGA AGCAGAGTGA	60
GCAAGGGCAG GAGTACCAGA GGAGGAGATA GGACGCCAAA GAGTTAAGAA AAGGAGGAAT	120
GCAGAACCTT TCCATCAAAA ATAAATAAT ACATAACCAT GGTATGTGG GGTGGGGTTG	180
TCTCTTCTT TTGGAAGAA GAAGGGCTT CTGGAATAG ATGCCAGGC CAGGCAGCAA	240
GCTGCTAAAC TCGAG	255

(2) INFORMATION FOR SEQ ID NO:932:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 588 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:932:

GAATTCGGCC TTCATGGCCT AGCATTTTCA AAAATTCAGT GCAAGCGCCA GGCGATTTGT	60
GTCTAAGGAT ACGATTTTGA ACCATATGGG CAGTGACAA AATATGAAAC AACTGTTTCC	120
ACACTTGCAC CTGATCAAGG AGCAGTGCTT CTCCATTTGT TTTGCAGAGA AATGTTTTTC	180
ATTTCCCGTG TGTTCATT TCCTTCTGAA ATTCTGATT TATCCATTT TTTAAGGCTC	240
CTCTTATCT CCTTCTTAA GGCAGTGTG CTATGGCACT TTTCTATAAC CTTTTCATTC	300
CTGTGTACAG TAGCTTAAAA TTGCAGTGAT TGAGCATAAC CTACTTGTIT GTATAAATTA	360
TTGAAATCCA TTTGCACCCT GTAAGAATGG ACTTAAAAGT ACTGCTGGAC AGGCATGTGT	420
GCTCAAAGTA CATTGATTGC TCAAATATAA GGAAATGGCC CAATGAACGT GGTGTGGGA	480
GGGGAAAGAG GAAACAGAGC TAGTCAGATG TGAATTGTAT CTGTGTAAAT AAACATGTTA	540
AAACAAACAA AAATGTTAT TTTCTTTTC CTTCGGTCAG AGCTCGAG	588

(2) INFORMATION FOR SEQ ID NO:933:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 520 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:933:

GAATTCGGCC TTCATGGCCT AGGGGAAGGA AAGGCCGTG TGGAGGAGCA TGGAGCCATC	60
TGCTCATGAA GGAAAGGCAG GGATGGGGCA GAGGTGTTGG GGCTCCGTG CGACTCCAGA	120
GGCCAAAGCCC AGAGCTGTGT GTGGAGCCCA TGAGGAGCAG AGATTTTCCA GCAAAGGTGC	180

ATTGTG	GGGC	CTCCAGATGG	AGGCCCTACC	TTCTCAGCAA	GGGAAGAAAC	CCCTCTCTCT	240
TTGACCTCTC	TCCCCTGCAC	AATTAGAAGG	TTCTGAAGAG	TGACTTCATT	ATTGGTG	GGGT	300
GAGTATATGT	TTATTGGGCA	TCTGTGGTGT	GCCAGATGTT	GTGTTGAGTG	CTGGGTGCAG		360
AGGTAAATGG	GATATCTGGT	TACCGCCAC	ATGGGGCTTA	TAGTGGGGGA	AGTGGGGGAG		420
TAAGTCAGGA	CACACGTAAG	CAAACGCTAG	AATGGATAGA	TATTGTGATT	AGAGCATTGG		480
AGAGAAAGAA	CAGGATGTTT	CAAGAAAGGA	CAGTCTCGAG				520

(2) INFORMATION FOR SEQ ID NO:934:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 259 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:934:

GAATTCGGCC	TTCATGGCCT	ACTTTTTTTC	TCAAGGTGCA	ATGAAAGCCT	TCCACACTTT	60
CTGTGTTGTC	CTTCTGGTGT	TTGGGAGTGT	CTCTGAAGCC	AAGTTTGATG	ATTTTGAGGA	120
TGAGGAGGAC	ATAGTAGAGT	ATGATGATAA	TGACTTCGCT	GAATTTGAGG	ATGTCATGGA	180
AGACTCTGTT	ACTGAATCTC	CTCAACGGGT	CATAATCACT	GAAGATGATG	AAGATGAGAC	240
CACTGGGGAG	TTTCTCGAG					259

(2) INFORMATION FOR SEQ ID NO:935:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 413 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:935:

AACAAATGA	AACAAACAAA	AGACAGAGGC	CAAGAAAGGC	TAAGTAACTT	GCCTAAGACT	60
ATATAATAAG	TCACAGGGCA	GGGAATAAAA	CTCAGTTTTC	CTGACTTCCA	TTAAGGTTGT	120
CTTTTCCTCA	CTCCACATTG	CCTGTCATTT	TTTTTCTGAT	TATTCTTAAG	AAGGAGTGAG	180
GAGAGAGAAT	AGAGAAACAG	ATTTTTTCT	CGACTATCT	TTTCTGTAGG	GAAAAACCAC	240
TGAAGCCCTA	TTAGCCTGGA	AGCTGCTTAT	AGGGTTACAA	TACTGTGTGT	CCTGCAGAAC	300
CTGTGAAGCT	CTTCTGTATT	TTCTGGACTT	TCCTGGAAAG	TCATTTAGAT	ATAATGTAAT	360
AAATATAATA	AAGTAGTTTA	GATATAATGA	GGTTTTCAAT	AGGCTTCCTC	GAG	413

(2) INFORMATION FOR SEQ ID NO:936:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 259 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:936:

GAATTCGGCC	TTCATGGCCT	ACCCTGAGAG	TAAGCCAAAA	AAGGAAGAAA	AAAATATGGA	60
AGTAAATATG	AAAGAGTGGA	TTTACGATA	TGCTGAACAA	CAAAATGAAG	AAGAAAAGAA	120

TGAGAATTCT AAAAGTTTAG AAGAGGAGGA AAAATTTGAC CCTAATGAAA GGTACTTACA	180
TCTTGCGCA AACTGCTGG ATGCAAAAGA ACAAGCAGCT ACCTTTAAAC TAGAAAAAAA	240
CAAGCAGGGC CGTCTCGAG	259

(2) INFORMATION FOR SEQ ID NO:937:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 263 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:937:

GCGAAACCGT GGTGAGCTGC AAGAAGGCAC AGGAGAACAT GAAGCAAAGG CACGAGAACG	60
AAACGCACAC CTTAGAAAAA CAAATAAGTG ACCTTAAAAA TGAAATTGCT GAACTTCAGG	120
GGCAAGCAGC AGTGCTCAAG GAGGCACATC ATGAGGCCAC TTGCAGGCAT GAGGAGGAGA	180
AAAAACAAC TCAAGTGAAG CTTGAGGAGG AAAAGACTCA CCTGCAGGAG AAGCTGAGGC	240
TGCAACATAA GAGGGAGCTC GAG	263

(2) INFORMATION FOR SEQ ID NO:938:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 384 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:938:

GAATTCGGCT TCATGGCCTA TTCACTACT AGGCTGACAT GCAAAATCCT AAGAGAAGTC	60
AGTCTTCCAG GATTGATCCT GGCATTGTG CTGCTGTTC CCCGTGCCTG GAGCAGCTGT	120
CCCAGCTCCC CTGTGGCTGG CTCCTTCTCA CCATCCAGGG TTCAGTCCAA ATATCTCCTT	180
CAAAGAGAGA TCTTCCAGGG TCACCTAATC CAGAGAGTGC CCTCTATGGT TGCCACATCC	240
CCCCGACCCA CCACCCACCA CCCCCACTT CAACTCCTT ATGGCACCTG CCCCTCCCTG	300
AAATCTCAC TGTGCTTAT TTGTTATCTA GCCCTCTCAT CAGAATGTAG ATCCACTGGT	360
GACAGGGGAC TTGTGTGCCT CGAG	384

(2) INFORMATION FOR SEQ ID NO:939:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 262 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:939:

GAATTCGGCC TCCATGGCCT AGTTGTGTTT TTGGGCTTG CTATTAATGC AAACTCTGAT	60
TGCAATGGA TGTGATGTTT CATACCTTTT TTATCAGGAA AAAAGCAGCA AGCCTTCAGG	120
TGTTCCAGTG ATGCTGACA CAATTGAGCT GGACTTTATG CTGCTCTTTA CAGTAAGAGG	180
TGTTGCATTG TATGTGGGGA CTATGTGCAC TGGCGTCTAA GACAGTGACC TCAACAATAT	240
TAGCTTTGCA CAAACCCTCG AG	262

(2) INFORMATION FOR SEQ ID NO:940:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 300 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:940:

GAATTCGGCC	TTCATGGCCT	AGTGGAGGAC	TGCTTTGTG	AACATGAGAA	AGCAGCGCCT	60
GGTCCCTATG	TATTTGGGTC	TTATTTACAT	CCTTCTTTAA	GCCCAGTGGC	TCCTCAGCAT	120
ACTCTTAAAC	TAATCACTTA	TGTTAAAAAG	AACCAAAAGA	CTTTTCTCCA	TGGTGGGGTG	180
ACAGGTCCTA	GAAGGACAAT	GTGCATATTA	CGACAAACAC	AAAGAAACTA	TACCATAACC	240
CAAGGCTGAA	AATAATGTAG	AAAACTTTAT	TTTTGTTTCC	AGTACAGAGC	AGAACTCGAG	300

(2) INFORMATION FOR SEQ ID NO:941:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 194 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:941:

GAATTCGGCC	TTCATGGCCT	AGTATATCTG	AAAAGTACAC	TGTGTTTTGA	AATTATAAAT	60
TTTCATTCTG	AATGAGGTTT	CTTTTTTTGA	TTTTCTTTAA	AAAAAAAAAA	CAACCTGCTT	120
TGATTGTCTT	TACATTCCCT	GCCCTCCATT	TTCTTATTA	TATTGTAAAC	ATTAGAAAAA	180
TGAACACCCT	CGAG					194

(2) INFORMATION FOR SEQ ID NO:942:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 581 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:942:

GAATTCGGCC	TTCATGGCCT	AGTGAGGATA	AAGATAAGGA	ACAGGCCAGG	CACAGTAGCT	60
CACGCCTGTA	ATCCCAGCAC	TCTGAGAGGC	CGAGGCAGGT	GGATCACATG	GGGCCAGGAG	120
TTTGAGACCA	GCCTGGACAA	CATGGTGAAA	CCCCGTCTCT	ACTAAAAATA	GCCAGGTGTG	180
GTGGCACACA	CCTGTAATCC	TAGCTACTTG	GGAGGCAAGG	TGGGAAGTTT	GTTTGAACCA	240
GGAGGCAGCG	GTTGCAGTGA	GTCAAGATCA	TGCCACTGCA	CTCCAGCCTG	GGTGACAGAG	300
TACGACTCTG	TCCCAAAAAA	AAAAAAAAG	ATAAGGAACA	GACCCAACCC	GAATCCACAC	360
AACCTGACAC	ACAGGAAAGT	CTTGCCCATC	CATCCACCTA	CCTCCCCAAC	CAGAGTAGTG	420
AAGCTATAAC	CCCAGAGAGA	TACCTTTGAT	GTGAGCACTG	TCCAGCATGG	GCACCAAGGC	480
ATTCACTGTC	TCCAGGAGTG	CAACCTGGGA	AAGGATAAAC	TGCTCCTCTA	AAGCAAAAAT	540
GGACAAGATA	GTTGCAGTGA	AGCAAACCTG	GGCATTGCTA	G		581

(2) INFORMATION FOR SEQ ID NO:943:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 259 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:943:

```
GAATTCGGCC TTCATGGCCT AAAACAGGCA ACAATGACCT TTTATTTTCT GTTGTGCCCC    60
ACCTCCCCAG CTTCCACCT CCTGTTCTTC CTACCTTCTT CCTTTTGTAC TAAATAATCC    120
CCACCTCCCT TGATCATACA GTGAGGCTAC AGTGACTGAG GGGAGAATCC CCTCCTGTTC    180
ACTCTCCCAA CCCTGCTCCA GCCCCTCAGC TTCCAGACC CTCATGCAGT TGGTTGTAAA    240
TTCTCCCACT GAGCTCGAG
```

(2) INFORMATION FOR SEQ ID NO:944:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 360 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:944:

```
GAATTCGGCC TTCATGGCCT AAAACCTCAC GTGGCCTCTG ATTTCAATTGT GGGTGCATCC    60
ACAGGTGGCC CGAGCTGTTT TTTCAGCTGC TCCAAGGATT GAGACCCAAG TCATCATGAA    120
AAAGGCCCAA GTACAGTCTT AATGCGATAA ATCCACTAGC TAAGACGTCG AGTGCCAAGA    180
CCAGCCTTCC AGCCGAGGTT TGGACAAAGT CTCAGGTTCC CGTGA CTGAG GGTAAAGGTGC    240
TGGGGCTGCC AGAGGACCTG CCCCAGCAAG ATTTTGTGCA AGAGCGAGAC TCCATCAGCC    300
CAGGCAGACG GGAGCAGGTT CTTGGCCAGC GTAGACAGCA GCAAACAGCA GCTCCTCGAG    360
```

(2) INFORMATION FOR SEQ ID NO:945:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 206 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:945:

```
GAATTCGGCC TTCATGGCCT AGTGCAGGAG ACGCCCTCAC CGGAGATGGG GACCGAGTCC    60
ACACGGCTCT CACTGCAAAT GCTTTGGGAA AAACAAGACA GTGTACTTTG TGATCATATA    120
AAACAGCAAA ATAAATAGT CGTGGGCACA GGGCCAGTGA TTCTGCAGTT AGAGCCGTGT    180
GGACTCGGTC CCCTCTCCGG CTCGAG
```

(2) INFORMATION FOR SEQ ID NO:946:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 272 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:946:

GAATTCGGCC	TTCATGGCCT	AGGTTCCCCG	GCGTGGCATG	GATGATGACA	GAGGCCCTAG	60
ACGTGGTCCT	GAGGAAGATA	GGTTCCTCTG	TCGTGGGGCA	GACGATGACC	GGCCTTCCTG	120
GCGTAACACA	GATGATGACA	GGCCTCCAG	ACGAATTGCC	GATGAAGACA	GGGGAAACTG	180
GCGTCATGCG	GATGATGACA	GACCACCTAG	ACGAGGACTG	GATGAGGACA	GAGGAAGCTG	240
GCGAACAGCT	GATGAGGACA	AAGGACCTCG	AG			272

(2) INFORMATION FOR SEQ ID NO:947:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 294 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:947:

GTTTGTCTTA	GATTTTGCTT	TGGTTAGGTT	GCGTTTGGG	GTTTGCCTTT	TTTTGTTGTC	60
GCTTAAATGC	AATTTGGTIG	TAAAGATTIG	ATTCCTTTGT	GTTTCATCTGT	TCCGCTTCTC	120
AGCGGTCCAT	CTCAGCGTCT	CCCTTCAGGA	ACCGCTGAGT	GTCCTCTCTT	AACATCCAAG	180
CCTTTTAATG	AAATCGTACT	GAAATCTGTA	TCAGCTAAGA	GTCCTCCAAT	CCTGGTCCCA	240
TTAACTCCAA	GTGCCTTTT	GACAGTGACA	ACAGACAGTC	CCTCGGCACT	CGAG	294

(2) INFORMATION FOR SEQ ID NO:948:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 462 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:948:

GAATTAGAAT	CTCTAAAGAA	ACAGGAGGGA	CTTCTTAAAA	ATATTCAGGT	CTCACATCAG	60
GAATTTTCAA	AAATGAAACA	ATCTAATAAT	GAAGCTAACT	TAAGAGAAGA	AGTTTGAAG	120
AATTTAGCTA	CTGCATATGA	CAACTTTGTT	GAAGTTGTAG	CTAATTGAA	GGAAGGCACA	180
AAGTTTACAA	ATGAGTTGAC	TGAAATCCTG	GTCAGGTTCC	AGAACAAATG	CAGTGATATA	240
GTTTGTGCAC	GGAAGACAGA	AAGAGATGAA	CTCTTAAAGG	ACTTGCAACA	AAGCATTGCC	300
AGAGAACCTA	GTGCTCCTTC	AATTCCTACA	CCTGCGTATC	AGTCCTCACC	AGCAGGAGGA	360
CATGCACCAA	CTCCTCCAAC	TCCAGCGCCA	AGAACCATGC	CGCCTACTAA	GCCCCAGCCC	420
CCAGCCAGGC	CTCCACCACC	TGTGCTTCCA	GCGTATCTCG	AG		462

(2) INFORMATION FOR SEQ ID NO:949:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 624 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:949:

GAATTCGGCC	TTCATGGCCT	ACTCAAAGAG	ACAACAAATA	GCATGGTAGA	ATCAATTAAA	60
CACTGCATTG	TGTTGCTGCA	GATTGCCAAA	AGTACTATTA	ATCCCGTAGA	TGCAATATAT	120
CAACCTAGTC	CTTTGGAACC	TGTGATCAGC	ACAATGCCTT	CCCAGACTGT	GTTACCTCCA	180
GAACCTGTTC	AGTTGTGTAA	GTCAGAGCAG	CGTCCATCTT	CCCTACCAGT	TGGACCTGTG	240
TTGGCTACCT	TGGGACATCA	TCAGACTCCT	ACACCAAATA	GTACAGGCAG	TGGCCATTCA	300
CCACCGAGTA	GCAGTCTCAC	TTCTCCAAGC	CACGTGAACT	TGTCTCCAAA	TACAGTCCCA	360
GAGTTCTCTT	ACTCCAGCAG	TGAAGATGAA	TTTTATGATG	CTGATGAATT	CCATCAAAGT	420
GGCTCATCCC	CAAAGCGCTT	AATAGATTCT	TCTGGATCTG	CCTCAGTCCT	GACACACAGC	480
AGCTCGGGAA	ATAGTCTAAA	ACGCCCAGAT	ACCACAGAAT	CACCTAATTC	TTCTTGTCC	540
AATGGAACAA	GTGATGCTGA	CCTGTTTGAT	TCACATGATG	ACAGAGATGA	TGATGCGGAG	600
GCAGGGTCTG	TGGTGAAGCT	CGAG				624

(2) INFORMATION FOR SEQ ID NO:950:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 371 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:950:

GATTCTAGAC	CTGCCTCGAG	CACGCTTGGA	GAAGCCCCGT	CTCTACTAAA	AATACAAAAT	60
TGGCCGGGCA	TGGTGGCGCA	TGCCTGTGGT	CCCGGCTACT	CTGGAGGCTG	AGGCGGGAGA	120
ATCACTTGAG	CCCAGGAGGT	GGAGTTGAGG	TGAGCCGAGA	TCGTGCCATT	GCACTCCGGC	180
CTGGGTGACA	GAGTGCAACT	CCGTCTCAAA	AAAAAAAAAA	AAGCATTCAC	GTCAATGTCA	240
AGAGAACCTG	CTACTAATGC	TTTCTTTGAT	AGGCAGTATG	ATAGGTTGGA	AAGAATATAA	300
ACTGGGATCA	AGCTTGGGTT	CCACTTACCA	GCTGTAGTAT	GTTGAGCAAA	TTATTTAATC	360
TAACACTCGA	G					371

(2) INFORMATION FOR SEQ ID NO:951:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 283 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:951:

GCGATTGAAT	TCTAGGGTTT	TTTTTTTTTT	GGGATCCTGG	GTAAAATTTT	ATCCAAAAAA	60
CGGGATTTTT	TTTTTTTTTAA	AAAAGGAAAT	TGGAATTCAA	AATTTTGGGC	AGCCCCGGCT	120
TTTTTTTTTT	TTTTTTTTTT	TTTTTTTTTT	TTTTTTTTTT	TTGGTGGGTT	CTGAGTCTTC	180
ACTTTATTAC	TATGTCACCA	GAAGTCACCA	CCTTCACTTG	GTTCAACACA	GATGGATGGA	240
TGTCATAAAG	GAGGGTGCCA	CGGGGCCACT	GGATTCACTC	GAG		283

(2) INFORMATION FOR SEQ ID NO:952:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 285 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:952:

GCTTGGCAGA	TGCTAACTTC	ATGGAAGATG	GTAATAGGAA	CAGATACTGC	TCTCTGCCCC	60
TGCTTCTTGG	ATTCTTCAGC	TCCTACCGCT	GATTCCGGATT	ATCCCCTTTT	GACCCTCTTG	120
GGGATCCAGA	CTGCTGCCAG	GAGGCTGAGT	AGATACCTCA	GTTATCTGTA	TGTTATTTCT	180
GAGAGGCTTT	GGCGGATCCT	CTTCACTTGG	CATCCTGTGG	CATCCCTAGG	GTCTGGTGGT	240
AGCAGTAATA	GCAACAATGA	TATCTTACAT	CTGGAACAAC	TCGAG		285

(2) INFORMATION FOR SEQ ID NO:953:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 614 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:953:

GAATTCGGCC	TTCATGGCCT	AATTCTAGAC	CTGCCTGTCT	TGAGAGGAAC	CTTCCCTGTG	60
CTGGCTCCTG	TTGTTATCTG	TACCTAAGTT	ACTCAGTTCT	GAGTGCATGT	CTGGTAAATG	120
CTGGCCATT	CTTTGAAGTT	CTGACTCAGA	ATCGGCCTCC	ATTAGAGAAC	TCAGTTCTCC	180
AAACCCAGTC	ATGATCTGCC	TTAAAATTGA	CCGAAGAGCC	ACTGATGATG	GCTCAACAAG	240
CTCATTCTCA	GAAATCCTAC	GAAGAGGAAC	TGTTATGGTA	CTAACATAGG	TTCGAATACC	300
TGACCGCTCT	AAACGAGAAA	TGGTTCGGCG	AAAGCCCCCA	CTATTGCTTT	CAATAGTGAC	360
TGTATTTTCT	GCTAGCCCTA	CTCTGGATCG	AGTTCTATTT	GCAATACTAT	CCCGATCTCT	420
ATTTTCTCCA	GGACGGATCC	TTCTCACTTG	AAGGTCCAGT	GTGATTGTTG	GATGTGCTCG	480
TACAGCAGTT	GAGGATCTGC	TGGATTCTTC	TCCTTCTTCT	ACTGTTATTC	TTGACACAAG	540
CCTTGAATTA	GAGAATGGGG	TATATGCAGT	ACCTCTGCGT	TCTCGTTCTC	TATCTTGCTC	600
TAAAAAGACT	CGAG					614

(2) INFORMATION FOR SEQ ID NO:954:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 304 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:954:

GAATTCGGCC	TTCATGGCCT	ACAAGGATTT	CAGGATGTTT	TTCCTCTGGA	CTGCTCTGTT	60
CTGGGGTGGG	GTCAATGTTT	ACTTGCTGCT	CAAGAGATCC	GGGAGAGAAA	TCACTTGGAA	120
GGACTTTGTC	AATAACTATC	TTTCAAAAGG	AGTAGTAGAC	AGATTGGAAG	TCGTCAACAA	180
GCGTTTGTG	CGAGTGACCT	TTACACCAGG	AAAAACTCCT	GTTGATGGGC	AATACGTTTG	240
GTTTAATATT	GGCAGTGTGG	ACACCTTTGA	ACGGAATCTG	GAAACTTTAC	AGCAGGCGCT	300
CGAG						304

(2) INFORMATION FOR SEQ ID NO:955:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 242 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:955:

```
GAATTCGGCC TTCATGGCCT AGTAGCTATT AATCTGTGGC TATGAAATGA TCAGAAATGC      60
TAAGTGAGAT CAATATTGTG TTGGAAAAAA AATCTTGGGA AACAACCCAA GGGTTTTCGC      120
TGTTGTGTGT TTCTTTTTC TATTTTGTN NACTTAGTCC TTTAGCTAGT GGATTTAATT      180
TTGTTGTGCC TGCTTCATTT TGCAATAACA ATGCAGTAGA ATTTAAAACT TGGACGCTCG      240
AG                                                                                   242
```

(2) INFORMATION FOR SEQ ID NO:956:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 293 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:956:

```
GCTGCGCTGT ACTTCAGATA CTTTTTTCGA GGAACATTTG TGATTGTGG CATAAAGTAA      60
CTGTCTAAAG GAAATCTTCT GAGAGGATCT GGTCATTTTA TGAAAGGGGC AATTAAGGGG      120
AAATGGAAGC AGATCTTTTA AAGAAGGAGC ATTTGAAATT AGCCCAGGAA TCATGTCCGG      180
CGAGTCCTGC TCTTTGTAC CTGGGCATAA TAGTCAGCCA CACAGAGCTA GAGTTAGTTC      240
AAGAATGTGC TTCTCTGATC GTGCTATATT TTTGGAAACA CGCCGTACTC GAG                   293
```

(2) INFORMATION FOR SEQ ID NO:957:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 253 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:957:

```
GCAAAGAATG GTAACGTGCT TATCATGGGA GTGTTTTGAG AAAGTTAGCC AAAGCTTCAG      60
CAGAAAAATC CCCGAGAAAG ACCAGAGAGT TCTTCACCAC AACAATGTTT CTGCTCATCC      120
CTCTCATCAA ACAAGGCCAT TTGCAAGAG TTTTGATGGG AAATCACTAG GCATCCACCC      180
TACAGTCTCG GTTTGGCACC TTCTGACTTT TTGTTTCTTA ATCTTAAAAA AATTTTTCAG      240
GGCAACTCTC GAG                                                                                   253
```

(2) INFORMATION FOR SEQ ID NO:958:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 466 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:958:

GAATTCGGCC	TTCATGGCCT	ACAACATCAG	CTCCTGTCTG	GTTCTCCAGC	TGCACGACCT	60
CAAACTACAA	CCTCAGCTCT	TCCCCGAGTC	TTCTGCTGCA	TGACCCTCAA	TCTAGAACAT	120
AAGCTCCTCT	CTGGGTGTCC	ACCTGTAGGG	ACCTCAAATT	AGAACGTCAG	CTCCTCCCAG	180
AGTCTTCAGC	TGCATGACCC	TCAATCTTTA	ACATCAGCTC	CTCTCCAGGT	CTGCAGCTCC	240
ATGACCCTAA	AAATACATGA	GCAGCTCCTC	CCTGAATCTT	CAGCTGTACG	ACCCTCAAAC	300
TACAACATCA	GCTCCTGTCT	GCACCTCCAG	CTGCAGGGCC	CTCAAACTAG	AATATCAGCT	360
CCTCCCCGAG	TCTTCAGCTG	CACGACCTC	AAACTAGAAC	ATCAGCTCCT	GTACAGATTT	420
CCAAGTGTAG	GGCCCTCAAA	CTAGAACATC	AGCTCCTCCC	CTCGAG		466

(2) INFORMATION FOR SEQ ID NO:959:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 137 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:959:

GGAGCATGTC	CTGTTATTTA	TTTAACTTTT	CCATTTTCAT	TTTTTATTTG	GGTAAGATAA	60
TTGCTTATGA	TAAGCCTGG	GTGTGGAGAG	CCGGTGCATA	CAGAGTGGCG	AGGCAAGCTT	120
CAATCTGCAG	TCTCGAG					137

(2) INFORMATION FOR SEQ ID NO:960:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 317 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:960:

GAATTCGGCC	TTCATGGCCT	AGAGCCGCGG	CTCATGCGCG	GTGCACAGAG	GCTTGTITCA	60
CATCTGTAAC	AACAGGAGGA	GGCCAGCCT	CGTGATGAGG	AATAGCAAGG	AGAGAATTCA	120
GCTCCAGTTC	AAAAGCCTAC	AAAATCTGAG	ACTGTCATTG	CTTTTATAAG	GATTCCAGCT	180
TTCCCTCCTG	GCCAGAAATG	TTCAGCCTGG	ACTCATTGAG	AAAAGATCGG	GCCCAGCACA	240
GGCAGCGTCA	GTGCAAACTT	CCCCACCCC	GCCTTCCACC	CATGTGTGTC	AACCCTACCC	300
CAGAAGGAAC	CCTCGAG					317

(2) INFORMATION FOR SEQ ID NO:961:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 470 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:961:

GAATTCGGGC	TTCATGGCCT	ACTCTGCTCA	ACCTGCACAT	CACCCACCAC	AGTCACCAGC	60
ACAAATTCAG	ATGCAACTAC	AGCACGAATT	ACAACAGCAA	GCCGCAATTCT	TTAGCCTCA	120

GTTTCTAAAC	CCAGCCTTTT	TGCCTCATTT	TCCTATGGCC	CCAGAAGCAC	TGCTGCAGTT	180
TCAGCAGCCT	CAGTTTCTCT	TTCCATTTTA	TATACCTGGG	ACGGAGTTCA	GCTTGGGGCC	240
AGATTTGGGC	TTGCCAGGCT	CTGCCACATT	TGGGATGCCT	GGCATGACAG	GAATGGCTGG	300
CTCCTTGCTT	GAAGACCTAA	AGCAGCAGAT	TCAAACCCAA	CATCACGTTG	GTCAAACCTCA	360
ACTCCAGATA	CTACAGCAAC	AAGCACAACA	ATACCAAGCC	ACACAGCCCC	AGCTGCAGCC	420
TCAAAAACAA	CAGCAGCAGC	CACCACCTCC	ACAGCAACAA	CAAGCTCGAG		470

(2) INFORMATION FOR SEQ ID NO:962:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 603 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:962:

GAATTCGGCC	TTCATGGCCT	AGGAGAANGA	CGTGCTGGTG	AACGTGAACC	TGGTGGATAA	60
GGAGCGGGCA	GANAAAAATG	TGGAGCTGCG	GAAGAAGAAG	CCTGACTACC	TGCCCTATGC	120
CGAGGACGAG	AGCGTGGACG	ACCTGGCGCA	GCAAAAACCT	CGCTCTATCC	TGTCCAAGTA	180
TGACGAAAAA	CTTGAAGGGG	AGCGGCCACA	TTCTTCCGC	TTGGAGCAGG	GCGGCACGGC	240
TGATGGCCTG	CGGGAGCGGG	AGCTGGAGGA	GATCCGGGCC	AAGCTGCGGC	TGCAGGCTCA	300
GTCCCTGAGC	ACAGTGGGGC	CCCGGCTGGC	CTCCGAATAC	CTCACGCCTG	AGGAGATGGT	360
GACCTTTAAA	AAGACCAAGC	GGAGGGTGAA	GAAAATCCGC	AAGAAGGAGA	AGGAGGTAGT	420
AGTGCGGGCA	GATGACTTGC	TGCCTCTCGG	GGACCAGACT	CAGGATGGGG	ACTTTGGTTC	480
CAGACTGCGG	GGACGGGGTC	GCCGCCGAGT	GTCCGAAGTG	GAGGAGGAGA	AGGAGCCTGT	540
GCCTCAGCCC	CTGCCGTCGG	ACGACACCCG	AGTGGAGAAC	ATGGACATCA	GCACACTCTC	600
GAG						603

(2) INFORMATION FOR SEQ ID NO:963:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 415 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:963:

GAATTCGGCC	TTCATGGCCT	ACAACAGCGT	TAGGTTTTTT	TTTNGTNG	TNGTNGTT	60
TNGTTTTTTT	CCAACCCTCT	TTCGGATGGA	CGGGGAAAGA	GAGAAAGAAA	AANCGAGGGA	120
AAATCNACAA	AATGTGCGAT	GCAAAGAGTC	GATTTTCGCG	GGGTTTGTC	ACTTCGCCAC	180
TGCCGCACGC	GAATCGACGT	CGTCACGTGA	CGGTCTGCCT	CCGCCCTTAT	TAACTCTCAG	240
CCCAGCGGCG	GTTTCCAGGA	CCTCAGACTT	TTTGCCGAGG	CGGCAGTCCC	TAGACGAAGC	300
GAAGGAGGCG	GCGCCTGCCC	CGCCACAAG	AGCTGCCGCG	CGCGGGTGTT	ATAGCTCCAC	360
CCCATCTGCA	AAGGAAGGGG	GAGCGGAAAG	AGCGGGATCT	AGCGGGGAAC	TCGAG	415

(2) INFORMATION FOR SEQ ID NO:964:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 241 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:964:

GAATTCGGCC	TTCATGGCCT	AGCGGGTCTT	CAGACAAGTG	GAAAAGGTGA	GAGAGGAGAT	60
CAGGGCGCAG	AGCCCCGTGG	AGGCTGAGTT	TCCATATGGG	CAACTGAGCA	CATCCTGCCA	120
CTCCCACCTC	GTGCCTCAGA	ATNGACACCA	GGCTACTCAT	CTGGAGGTGA	CCAAGCAGCC	180
AACCAATCGG	GTCCCCTGGA	GGTCCTCAAA	TGCCTCCCA	TACCTTGTTT	CAGACCTCGA	240
G						241

(2) INFORMATION FOR SEQ ID NO:965:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 485 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:965:

GAATTAATAG	CCTGCAGGTT	AATTACTCCC	TGAAGGGTAT	TGTGGAAAAG	TATAACAAGA	60
TCAAGATCTC	TCCCAAATG	CCAGTATGCA	AAGGACACTT	GGGGCAGCCT	CTCAACATTT	120
TCTGCCTGAC	TGATATGCAG	CTGATTGTG	GGATCTGTGC	TACTCGTGGG	GAGCACACCA	180
AACATGTCTT	CTGTTCTATT	GAAGATGCCT	ATGCTCAGGA	AAGGGATGCC	TTTGAGTCCC	240
TCTTCCAGAG	CTTTGAGACC	TGGCGTCGGG	GAGATGCTCT	TTCTCGCTTG	GATACCTTGG	300
AAACTAGTAA	GAGGAAATCC	CTACAGTTAC	TGACTAAAGA	TTCAGATAAA	GTGAAGGAAT	360
TTTTTGAGAA	GTTACAACAC	ACACTGGATC	AAAAGAAGAA	TGAAATTCTG	TCTGACTTTG	420
AGACCATGAA	ACTTGCTGTT	ATGCAAGCAT	ATGACCCAGA	GATCAACAAA	CTCAACACGC	480
TCGAG						485

(2) INFORMATION FOR SEQ ID NO:966:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 330 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:966:

GAATTCGGCC	TTCATGGCCT	AACGGCTCCC	TCACTTGGA	ATTAAAGTCA	GACACTGCCG	60
TAAGGTTCTT	CTGGTTCCTG	CTTTGTGGAG	AAAGCTTTCA	GCAGCAATAT	CTGGGATCAC	120
TGGTGTATTA	AATGTCAGGC	CTCGCATCAT	TATCTGCCC	TGAGCTGATG	GTAAACCGGG	180
CACCCAGCCT	TTTAGCTTTC	ATCCAGCAGC	AGGGAAGTTG	CCTTCAGATG	TGACACGTAC	240
AAGTCAAAAA	AGCTCAGAGT	CAGCTCCAAC	GTCTATTGGA	TCCCACTCTA	TGCTCTTAA	300
AAAGGAAAAG	AAAATCGAAA	CGAACTCGAG				330

(2) INFORMATION FOR SEQ ID NO:967:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 344 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:967:

GAATTCGGCC	TTCATGGCCT	AGGGTCGCAG	ACTCAAATGC	CCACAGGGGC	CAGGTTAGGT	60
TAGCGGCTGA	AGCAGTCTGG	GGAGAGGCAA	AAAGCAATGG	CAGGGAGGTG	GGACAGAGGA	120
ATGTGGGCCC	CAAACTATGG	GGGCAGCTGC	TACTCAGTGC	CAGCTGTTTG	TCGCCATGGG	180
GGGAAGCGGG	ACCAGAGCCG	CCGGGTCTTC	GGCTTTTTC	AGAGGACGCA	TAACTCCGGA	240
TTGTTATTG	AACTGTCCTG	ACTTTGGTAA	GACTCTGTGA	CGGTGACAGT	GAAGGAGGCC	300
GACTCATCGT	CAATTCACA	CAAGTACTCG	CCGGAGTCTC	CGAG		344

(2) INFORMATION FOR SEQ ID NO:968:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 531 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:968:

GAATTCGGCC	TTCATGGCCT	AGGATGCAGC	CGAAAAGGAT	CGCAAGCTTC	AGGAGAAAGA	60
GAAGCAAATC	GAAGAGCTGA	AGAGGAAACT	GGAACAAGAG	CAGAAGCTCG	TGGAAGTGCT	120
GAAATGCAA	CTTGAGGTG	AAAAACGAGG	GCAGCAGCAG	CGGCCCTTGG	AAGCCCAGCC	180
CAGTGCCCCA	GGTCATTCTG	TCAAGTCAGA	TCAGAAGCAC	GGCAGCCTTG	GCTCTCCAT	240
CAAAGATGAG	GCCTCACTCC	CTGACTGCTC	CAGCTCCAGG	CAGCCCATCC	CAGTAGCCAG	300
CCACGCTGTA	GGCCAGCCCG	TCTCTACAGG	TGGCCAGACC	CTTGTTGCCA	AAAAGGCTGT	360
AGTTATCAAG	CAAGAGGTCC	CTGTGGGCCA	GGCAGAGCAG	CAGAGTGTCG	TCTCGCAGTT	420
TTATGTGAGT	TCCAGGGGAC	AGCCACCGCC	TGCTGTTGTT	GCTCAGCCCC	AGGCTTTACT	480
GACCACGCAG	ACTGCTCAGC	TGCTGCTCCC	AGTGTCCATC	CAGGGCTCGA	G	531

(2) INFORMATION FOR SEQ ID NO:969:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 388 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:969:

GTGCCTCGAG	AAACTGCCTA	TTCAGAAACA	CAGAAACACC	GAGACCTCAA	AATCCCCCTGA	60
GAAGGACGTT	CCCATGGTAG	AAAAGAAGAG	CAAGAAACCC	AAGAAGAAAG	AGAAAAAACA	120
CAAAGAGAAA	GAGAGAGACA	AGGAGAAGAA	GAAGGAGAAG	GAGAAGAAGG	CTGAGGACCT	180
GGACTTCTGG	CTGTCTACCA	CCCCACCGCC	TGCCCCCGCC	CCCGCCCCCG	CCCCCGTTCC	240
ATCCACGGGG	GAGCTCAGTG	TGAACACTGT	CACTACCCCG	AAGGACGAGT	GTGAGGACGC	300
CAAGACGGAG	GCGCAGGGCG	AGGAGGACGA	TGCCGAGGGG	CAAGACCAGG	ACAAGAAATC	360
TCCCAAGCCT	AAGAACAAGA	AGCTCGAG				388

(2) INFORMATION FOR SEQ ID NO:970:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 365 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:970:

```
GAATTCGGCC TTCATGGCCT AGCTTACACT GGGCCAAGTG CTGCCAAGG ATTCTCATGT    60
GACATTTCTT TCAGTCCTGC CGAGGACTTT ATGAGGGAAG CACCTGTGTT TACAGAGGGA    120
AGGGGGCCTA TGGGGTCTAC AGCAGTGAGA GCCTAGAGTT CAGTCTGCGT CTCTCTGATT    180
CCAAAGCCTG TGATTGTGAC TTCCATACTC TCCCTAAGAC ACATTCATAC ATTCAACTGA    240
ATATTTATTG AGCACCTACT GTGTGCTAGG GATAGAGCAG TAAATGAATC AGGCAAAAAT    300
TATTTCATT CCACTGGGGC TGACAAACCC AAACAAGGAA GAGGTGTAGT GCTTCGGGTC    360
TCGAG
```

(2) INFORMATION FOR SEQ ID NO:971:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 332 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:971:

```
GCAAAAGTAA TATGATTTGT TTTAAATACT CAGTCAACAG GTATTTCTTG AAAATATTTT    60
CCATAGAAAG TAGAATATGG TTCTCCCGAA TAAAACTGA TCCATTTTAC CTTTTCCTTT    120
CCCTTTTGTG TNNGGTATTT TTTTTCCTTT TTTTCTTNN GCTTTTTTCC TTAACTTTC    180
CAGCCAAAGG CTTCTATGAT CTTGATGCTT TAAATGAAGC TGCTTGGACA AGTGCCCAAC    240
GCCAGTTGGT TCCCTGTAAT GTTTGTGGGC GTACCTTCCT GCCAGACAGA CTGATTGTTT    300
ACCAACGATC TTGTAAACCC AAAGCTCTCG AG
```

(2) INFORMATION FOR SEQ ID NO:972:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 273 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:972:

```
GCGCCCTCAC CCCTCCAATC CCCCTCTGA CCCCTCTTC CTCACATGGG GTCGGGGGCC    60
TGGGAGTTCA TTCTGGACCA GCCCACCTAT CTCATTTC TTTTATACAG ACTTTGAGAC    120
TTGCCATCAG CACAGCACAC AGCAGCACCC TTCCCTGAG GCCCGTGGG AGGGGACAAG    180
TGTCAGCAGG ATTGGCGTGT GGGAAAGCTC TTGAGCTGGG CACTGGCCCC CCGGACGAGG    240
TGGCTGTGTG TTCACACACA CACACACCTC GAG
```

(2) INFORMATION FOR SEQ ID NO:973:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 274 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:973:

```

GAATTCGGCC TTCATGGCCT ACTCTGTCTC AAAAAAAAAAT AGTAAGTTGT GTAAAGAAAA    60
ATATTAATTA TATAATATGG CAGTTCCTAT GAGAGTGTGG CAAAAATCAA GAGGGCTTGG    120
AAGTTTTTTC TTTGCTCTTG CAACTGGCTG GATGCAGTTC ATATATTTT CAACCAGTAG    180
GTGGCACCCC AACCTAATT TTTGCAGTTG TAACCTGGTG GCAGAAGGGG CAGGACTGAT    240
GGCTTGGGCA AGACTGTTAT GCCAAGTTCT CGAG                                274

```

(2) INFORMATION FOR SEQ ID NO:974:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 145 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:974:

```

GAATTCGGCC TTCATGGCCT AGTGAGATAG TACCAGATT AGAATATAAT TTTATCTTTC    60
TTTAGCAACA AGCCCTAACA ATATCCAAC TAAATAAAAT CATTACATGA ATTTACTTTT    120
TACAATCATT CTCCTAAGGC TCGAG                                145

```

(2) INFORMATION FOR SEQ ID NO:975:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 242 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:975:

```

GAATTCGGCC TTCATGGCCT AGGAAATAAC AGTTATTTCA TCATAAAACA GTCCCTTCAA    60
ACACACAATT GTTCTGCTGA AGAGTTGTCA TCAACAATCC AATGCTCACC TATTCAGTTG    120
CTCTGTGGTC AGTGTGGCTG CATAGCAGTG GATTCCATGA AAGGAGTCAT TTTAGTGATG    180
AGCTGCCAGT CCATTCCCAG GCCAGGCTGT CGCTGGCCAT CCATTCAGTC GATCATCTCG    240
AG                                242

```

(2) INFORMATION FOR SEQ ID NO:976:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 116 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:976:

```

CATGTGCACA CTCGCACATG CACATATGGG CACGTGGGAA GACGGGAGAA GTACTGTCAA    60
AGTATAAGGA ACTGCAGAGG TTGGGATTTA CTGGAAGGGA AGGGAGCACA CTCGAG    116

```

(2) INFORMATION FOR SEQ ID NO:977:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 461 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:977:

```

GAATTCGGCC TTCATGGCCT AGCATGGCAA CAGATATGTG GAGCATTGGA GTGTTAACAT      60
ATGTCATGCT TACAGGAATA TCACCTTTCT TAGGCAATGA TAAACAAGAA ACATTCTTAA      120
ACATCTCACA GATGAATTTA AGTTATTCTG AGGAAGAATT TGATGTTTGG TCTGAGTCGG      180
CTGTTGATTT CATCAGGACA CTTTATAGTTA AGAAACCTGA AGATCGAGCC ACTGCTGAAG      240
AATGTCTAAA GCACCCCTGG TTGACACAGA GCAGTATCA AGAGCCTTCT TTCAGGATGG      300
AAAAGGCACT AGAAGAAGCA AATGCCCTCC AAGAAGGTCA TTCTGTGCCT GAAATTAATT      360
CGGATACCGA CAAATCAGAA ACCGAGGAAT CCATTGTAAC CGAAGAGTTA ATTGTAGTTA      420
CTTCATATAC TCTAGGACAA TGCAGACAGT CAGAACTCGA G                      461

```

(2) INFORMATION FOR SEQ ID NO:978:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 108 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:978:

```

GAATTCGGCC AAAGAGGCCT AATGATGATG AATAAGTTGG TTCTAGCGCA GTTTTTTTTT      60
TTTCTGTGCT ATAAAGCATT TAACCCCTCT GTACACAAC TACTCGAG                    108

```

(2) INFORMATION FOR SEQ ID NO:979:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 505 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:979:

```

GATGGCGTCG GGCAGCGGGA CAAAAAATT GGACTTTTCG CGAAAGTGGG ACAAAGATGA      60
ATATGAGAAA CTCCCGGAGA AGAGGCTCAC GGAAGAGAGA GAAAAGAAAG ATGGAAGAAC      120
AGTGCAGCCT GTCAAGCGAG AGCTTTTACG GCATAGGGAC TACAAGGTGG ACTTGGAATC      180
CAAGCTTGGG AAGACAATTG TCATTACCAA GACAACCCCT CAATCTGAGA TGGGAGGATA      240
TTACTGCAAT GTCTGTGACT GTGTGGTGAA GGACTCCATC AACTTTCTGG ATCACATTAA      300
TGGAAAGAAA CATCAGAGAA ACCTGGGCAT GTCTATGCGT GTGGAACGTT CCACCTGGA      360
TCAGGTGAAG AAACGTTTTG AGGTCAACAA GAAGAAGATG GAAGAGAAGC AGAAGGATTA      420
TGATTTTGAG GAAAGGATGA AGGAGCTCAG AGAAGAGGAG GAAAAGGCCA AAGCGTACAA      480
GAAAGAGAAA CAGAAGGAGC TCGAG                      505

```

(2) INFORMATION FOR SEQ ID NO:980:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 314 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:980:

```

CGAGGGACAT GAGGCTGAGC TGGTTCCAGG TCCTGACAGT ACTGTCCATC TGCCTGAGCG      60
CCGTGGCCAC GGCCACGGGG GCCGAGGGCA AAAGGAAGCT GCAGATCGGG GTCAAGAAGC      120
GGGTGGACCA CTGTCCCATC AAATCGCGCA AAGGGGATNT CCTGCACATG CACTACACGG      180
GGAAGCTGGA AGATGGGACA GAGTTTGACA GCAGCCTGCC CCAGAACCAG CCCTTTGTCT      240
TCTCCCTTGG CACAGGCCAG GTCATCAAGG GCTGGGACCA GGGGCTGCTG GGGATGTGTG      300
AGGGGGACCT CGAG                                     314

```

(2) INFORMATION FOR SEQ ID NO:981:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 379 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:981:

```

GAATTCGGGC TTCATGGGNT ACTCATTGCT ACATTGCTAG TTGACCGCA GTTATATTTTC      60
CTTTTTTCT TTTAATAAA AGGCAAGAGA AACAATCCGT TTTTGCTTT TCCTACCACA      120
TCTTTGACTT TTCTGATTCC TGCAAGTTTA AGTAAAAAC ATCCTACCTT CAAGCTACAA      180
AATGCAGCAC ATCCCAGGAC ATCCCTCACC TGCTTTGCTT GTTTATTAGA CACAAGTGGC      240
TTTGTTCAGA AAGTTACTGG GAACCGCTAA GGATAGTCAA GGTGGAGAAC ACAGGGTGGG      300
GTCTCAGAGT CTGAGGCCTT GGTTCAGGTT CCTGATAACA TAAATATAG AAAATACACA      360
GCACAAGGCC AAATCGAG                                     379

```

(2) INFORMATION FOR SEQ ID NO:982:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 362 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:982:

```

GAATTCGGCC TTCATGGCCT AGAAGATGGT AAGGTTGAA TCTTTCGGGT GATGGGAGTT      60
AAGTGTGAAC AGGAACTGGG ATTTAAGGCG CACACTTCAG GGGTATCCCA GGTCTGCTTT      120
CTCCAGAAT CCTATTTGCT GCTTACTGGA GGAATGATG GGAAGATCAC GTTGTGGGAT      180
GCAAACAGTG AAGTTGAGAA AAAACAGAAG AGTCCCACAA AACGTACCCA CAGGAAGAAA      240
CCTAAAAGAG GAACTTGCAC CAAGCAGGGT GGAAATACTA ACGCTTCAGT AACAGATGAG      300
GAAGAACATG GCAACATTTT ACCAAAGCTA AATATTGAAC ATGGAGAAAA AGTGAACTCG      360
AG                                     362

```

(2) INFORMATION FOR SEQ ID NO:983:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 574 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:983:

```
GAATTCGGCC TTCATGGCCT AGGCCACTGA TATTTTCTA AGTTAGCAAG GCTCACTTGC      60
TTGCTTTCTT GCCTCCCTTG CCTCCATCCC TCTCCCTTCC TACCTTCTCT ATTTACCTAT      120
TTCTCTCCCT CCCTCTCTTC TCCTCTCTTT TTTTTCCTCC CGCATATGCA GCTTTTGTAT      180
TGTACTTGAT TTTATAGAGA CTGCACAGTT CCAGCAAGAT TGGGAGTCAG GCATGGAGCA      240
GGCATCTCAG GCTACCAGAA AGAATTGGTC ACCTAGACTT TCAGTCAGGC ATCCTCGTTT      300
GCATTGTCCT GTAAGTCAAT TAGTTGATAA ATAGTTCCCC CTTCATCCCT TAAGTTTGT      360
TTTTGTTTTT GTTTTAATA TAGGTAAGTG GGACTCTACC TAAAATTTTG CATCATACTT      420
ATGGGTAATA TCCTTTTCAT ATATTATTTA TCAAAGTATG AAGTTGAGTA TTTTGCTTGT      480
ACCATTTCAA TTCTGCATTA TAGTAGTTCA TTGTATAACT GAAAGAAATG ATTTCTTCAT      540
AAGTGACATT AAATATGAAC ATTCATCTCT CGAG      574
```

(2) INFORMATION FOR SEQ ID NO:984:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 274 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:984:

```
GAATTCGGCC TTCATGGCCT ACGATTGAAT TCTAGACCTG CCCCCTCCCT CCATGCCTCA      60
TCCCCCGCCC CCTCCAGTCA TGCCGCAGCA GGTTAATTAT CAGTACCCTC CGGGCTATTC      120
TCACCACAAC TTCCACCTC CCAGTTTAA TAGTTTCCAG AACAACCCTA GTTCTTTCCT      180
GCCCAGTGCT AATAACAGCA GTAGTCCTCA TTTCAGACAT CTCCTCCAT ACCCACTCCC      240
AAAGGCTCCC AGTGAGAGAA AGTCCCCACT CGAG      274
```

(2) INFORMATION FOR SEQ ID NO:985:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 366 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:985:

```
GAATTCGGCC TTCATGGCCT AGATAAGGAG ACTTCAGAAG AGAAGCCGCC AGCTGAGGGA      60
AGTGAGGACC CTAAGAAGCC ACCCGCCCT CAGGAGGGAA CAAGATCTAG CCAGCGAGAT      120
CAGATACTCT ATCTTTTGG GAGAACTGGC CGAGAAAAAG AGGAATGGTT TAGGAGATTT      180
ATTCTGGCAT CTAAGCTAAA GTCGGAAATC AAGAAGTCAT CGGGTGTCTC TGGAGGTAAA      240
CCAGGGCTTT TGCCTGCACA CAGCAGACAC AACAGTCCGT CCGGGCACCT GACCCACAGC      300
CGCAGCAGCA GCAAAGGCAG TGTGGAGGAG ATCATGTCAC AGCCAAAGCA GAGGGAGCTA      360
CTCGAG      366
```

(2) INFORMATION FOR SEQ ID NO:986:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 451 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:986:

```
GAATTCGGCC TTCATGGCCT ACTCTCTTCC AACCAAAAGT CTTAATATGG GAATATCCCT    60
CACCACGATC CTAATACTGT CAGTAGCTGT CCTGCTGTCC ACAGCAGCCC CTCCGAGCTG    120
CCGTGAGTGT TATCACTCTT TGCACACAG AGGGGAGATG CAACAATACT TTACTTACCA    180
TACTCATATA GAAAGATCCT GTTATGGAAA CTTAATCGAG GAATGTGTTG AATCAGGAAA    240
GAGTTATTAT AAAGTAAAGA ATCTAGGAGT ATGTGGCAGT CGTAATGGGG CTATTTGCCC    300
CAGAGGGAAG CAGTGGCTTT GCTTCACCAA AATTGGACAA TGGGGAGTAA AACTCAGGT    360
GCTTGAGGAC ATAAAGAGAG AACAGATTAT AGCCAAAGCC AAAGCCTCAA AACCAACAAC    420
TCCCCCTGAA AATCGCCCGC AGCATCTCGA G                                     451
```

(2) INFORMATION FOR SEQ ID NO:987:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 334 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:987:

```
GAATTCGGCC TTCATGGCCT AGAGAAACTG AGCAAAAATA GCTGCCAAGA GAAGAGGGAA    60
CGAGTGCTCG GGGCGGGTTG GAGGCAGATA ACGAGAAGGC AAGAAAATTC TTGTCTTTG    120
GCTCTGCTG TCAGCTCAGA GGGGTCATCT TGAGATGAAA AAGAAAAGTC CCCAGCCTTG    180
GGGAAGGAAA GGAGAGGGTG CCCACGCAG ATATGAAGCA AAGCCATTGG CAAGATATTC    240
TCTCTAAGGA GAGCAGCGGT CTTGCCAAG GCATCTTCTA TTGTGTATTG CCGTCATAAA    300
CCCTACCCCT CCATGTAGAT AGCCAGGACT CGAG                                     334
```

(2) INFORMATION FOR SEQ ID NO:988:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 509 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:988:

```
GAATTCGGCC TTCATGGCCT AAGAGAAACA AAAATGATTT TGCTTTCCAA GCTTGGTTTG    60
TGGCGTCTCC CTCGCAGAGC CCTTCTCGTT TCTTTTTTAA ACTAATCACC ATATTGTAAA    120
TTTCAGGGTT TTTTTPTTTG TTAAAGCTGA CTCTTGCTC TAATTTTGGA AAAAAAGAAA    180
TGTGAAGGGT CAACTCCAAC GTATGTGGTT ATCTGTGAAA GTTGACAGC GTGGCTTTTC    240
CTAAACTGGT GTTTTTCCTC CGCATTGGT GGATTTTAT TATTATTCAA AAACAAAATG    300
AAAAGTTTAT TTACTTTTTT TTTCTGAAA TGCTGACAA ATGTGATATC TTAATATCTG    360
TAATTCCTAG TGAAAGTTAT GGTATAGTAT AGGTGAAGCT GTAGTGTTTA TATCAATAGA    420
TGTGAATTCA AATGAGCAAT CTAATAATTA TTTACTATTC AATTATGTTA ATTTCTTCTT    480
CTTTGTCTCC CATTGTATCT GCACTCGAG                                     509
```

(2) INFORMATION FOR SEQ ID NO:989:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 409 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:989:

```

GAATTCGGCC TTCATGGCCT AGGCTTGTGG GCAGGGCCCG TGCAGGTCAT GGAGCCGGTA      60
GCATCTCAGA GCTGGACAGA GGAGGTAGGC TGGGAGCAGG CCCGTTGGG GACCAAGTGGC      120
CCCTGCACAG GAGCCAGAGG GCCTGGGCAG CTGTCTGTCC AGAAAGCATG CAAGACCCCG      180
TGCCACCCGG GCACACAGGG CTGTCTGTTC TAGAAAGAGA TCTCCTGGGG TCACGGGCAG      240
GCAAAGCTGA TTGATTITGG CCGTGAAGTT TGACCTTGTG ATGGAAACCG AGCTCCCAGG      300
GAGTGAGACA AACTGCCTCC CCGTGTCACT GGCCAATAAA CCTGACTTGG TTTTACAGCC      360
CCGAGAAATT GCTCACTAAT AGCCAGACAG ATGCTCCCCC TGCCTCGAG      409

```

(2) INFORMATION FOR SEQ ID NO:990:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 210 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:990:

```

GAATTCGGCC TCATGGCCTA CCCAAATCTG AAGTCTTTGG ATATGTTACT GCTGAAGTTT      60
CTATCACTTC TCACTCCTGG TTCCTTGTTT CCCTGTATGC TTTTITTTTT TTTCATGAG      120
TTCACTTTTT TAAATTATAG TTCTTCAAGG CCTAGGATGC AGGTGTGTTC TTCCATAAAG      180
GGCTATTTTT CCTCTGCCGA GGTCTCGAG      210

```

(2) INFORMATION FOR SEQ ID NO:991:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 447 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:991:

```

GAATTCGGCC TTCATGGCCT AGTAGATAGT ACAAATTC AAGATATCA AAGTGTGTTA      60
AGTTTACCTT TCCACCCACT TTCTCATTTT TGTCTCCCCC AGTTCCITTT GCATTATTCC      120
ACGTATATTC TGTGCATATA TACATTCATA TACATTATC TGTATGTGTC AGCTTCTTTT      180
TACACAAATG ATACATAAAC ACTGTTCTGG ACCTTCCAAC TTAGAATTAC TGCAACAGT      240
GTCGTGATGA ATTACCTAAT TCTGTGTATG TGTGTATATT GGTAGAAAAA ATTCCTGGAA      300
GTAGAATTGC TAGAACAAAG ATTTATGCAT TTTAAATATT CCTTTATTAT AAAACTAATG      360
AAAGTAAACA TGTGGCTAT GACCACGTAT GCTCTATGCT CAGTTTTTCT AGAGTTGTGT      420
ATGCTTAATA TAGGAGCCTG CCTCGAG      447

```

(2) INFORMATION FOR SEQ ID NO:992:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 303 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:992:

```

GAATTCGGCC TTCATGGCCT AGCCCATGTG TGTATTATT GAATTAATTT CAAGCTTACA      60
GAAGAATTAT AAGAATTATA CAAAGAGCCC TTGTATAGCC TTCATCCAGA TTCCTCATT      120
ATAGTTATCT CCCCACACA CGTAATGCAC AGACACTGCA TGCATTTTCC TTTTCTTTT      180
TCTCTTCTTT CTTTTCCTTT TTCTCTCTTT CCCTTTCTCT TCTCCCTCCC CTCCCCACCC      240
CTCCCTCCC TTCTCTCCC TTCCCTCCT CTTACTTCAG CCTCTAGAAT AACTAGACTC      300
GAG                                                                    303

```

(2) INFORMATION FOR SEQ ID NO:993:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 359 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:993:

```

GAATTCGGCC TTCATGGCCT AGGATTGGT AGGGTAACIT GAAAACTGAG TAAATGAGA      60
AAGGTAGAAA AAATTCGTAC TTTTCTCTCT CCCCACAAA AATAAAAACA GTAAATCTT      120
TACCAACTGA AAAAGCTGTT GAAATTTTCT GTATGTTAAA AAAATGAGCT TTGCAGTAAC      180
TCTTAAAATC ACCTAGCAAA ATAGGAACTA TAATGTGTCAT CTTTCCTTCA CTAAAACATT      240
TATTGCATCT CTTCTTGATG CTGATGATTG AGGACACACA TTCTGCTTTC CTGGGGCTTA      300
TGGTTTATA TAAAACCAA AGCAAAGTAG AAAGTATACC TCCTACCAAG GGGCTCGAG      359

```

(2) INFORMATION FOR SEQ ID NO:994:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 406 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:994:

```

GAATTCGGCC TTCGGCCTTC ATGGCCTAGA GGAGGACCAA GGCTTCAAAG GCCCCTGCCC      60
GCGCGTCCTG CAGGTTCCTA TTGTCCGTGT TAATAGCCTC AGATGGGCAT CAGTTGCCCT      120
GATGGGCTTG GGCTCCACGC CCGGGCTTGC ATGTTTGGCA AAATTACTCA AGAGCATTTT      180
TTTTTTTTTT CTTTGAGACT CCGTCTCAAA AAAAAAATAA AAAGAGATCC TCAGCTGTTG      240
TTTCTTGAAT CAGATATTTG GATCACTCTA GCATCCAATC ATGCAGCTCC TAAATATGCT      300
CCTAAATCAT GCAGGTCCAA TCACGCACCT GTTTTACGGT TTATCAATTT GTGCTCATCC      360
TGAATAAAT AAACAAATCC ATGAGCCAAC TGCAGACCA CTCGAG                      406

```

(2) INFORMATION FOR SEQ ID NO:995:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 603 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:995:

```
GAATTCGGCC TTCATGGCCT ACCATCTTGG AACCTCCTCC CATGATTGCC TTATTATTTT    60
AAATACATTA ATGTAGATCA ATGAAGAATA AGAAAATAAG CAATTTTATT TTACCTTAAT    120
TTATTCTGTT TCTGATGCTC TTTGTCTCTC TATGTAGGTC TGACTTTTGG ACCTACATTA    180
TTTCTTTTCC CTCCTAGGAA TTTTAAAAAG CATTTCCTGT AAGGCAGGGC TACTGAAAAC    240
AAATTTCTCT AATATTTGCT TGTCTACAAA AGTCTTTATT TCTCCTTTAC CTTTTAAGGG    300
AAATTTTACA ACCTACAGAA TTCTAGGTTG GTGGGTTTTT TCCCCCTCAA TCCCTTAAGT    360
ATTTAATTCC TCTCTTCTTG CTGCAATGGT TTGTAAGGAA GAGTCAGATG TAATTTTAT    420
CTTTGCTTCT GTATGGGTAG GGTGCTTTTT CTCTAGATT TTTTTCAG AGTTTTCCTC    480
TTTCTCTTGG ATTTTCTGTA CTTCAAATAT ATTATGCCCA GGTATAGATT GTTTTCTGTT    540
CTGTTTTGTG TTTCATTTGG CATTGTGTCT GCTTGGTGTG CTCTGAGCTT CCCGGATCTC    600
GAG                                                                    603
```

(2) INFORMATION FOR SEQ ID NO:996:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 461 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:996:

```
GAATTCGGCC TTCATGGCCT ACAGAGAATG AAACATGGAG CTCACATTCT GATGGGGGAG    60
AAATAAAAAT CATATCAGAT GGTGATGAGC TTTCGGTTT TCTATTCTTA TTTATGAAGA    120
ATAAAATAAG GTAATAGAGA TAATGTGATG AAAATCTTAA CATTCTCTAC CTTTCCTGAA    180
TTCTTAATCT ATACCTTCTG TTCTTACATT TTCTACTTAA TTTTATTTAA TACAACCTGT    240
AGCTAAACTT TTATTTTCTT TCACTCCCTG ATTCTTAACC CCTATCCATG CTAATTTTGG    300
CCTTCACTAT TCCACAAAAC TTACCCACTG TCGTATTATT ATCTTCTATT AAAAGCCAGT    360
ATTCTCTTTT CAGTTTTTAT CCTTCTTGAT CTACACTGAA CATGATTGCC TTTCTCTCTC    420
TTATATCACT TGCTGCTATC TGCAGTCCAA CTAGCCTCGA G                                                                    461
```

(2) INFORMATION FOR SEQ ID NO:997:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 470 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:997:

```
GAATTCGGCC TTCATGGCCT AGTGATTGGG GTACAGACAC AGCCAAACCA TATCATTACA    60
GATATAAATC TCTGAGTAAA TCCGGTGTTT GATTCTTCT AGCTTTTGTAG CTTATGAGTA    120
GAGGTCTTTT TCCTCTACTC CAAGAATTTT CATAGACACA CCACTTAGTA CTTACGTTTA    180
CCACCATTGT TATTATTTT AAGAATGTAC TACTTTATAT TTTTAAACAT GAAGGACTAG    240
CTCAAAATTT TGTAGCTTCC CCCCCGCCC CAATCTTTT TTTTCTTTTG ACTCCTTTGT    300
```

GATGGGTAGT GGTTTAAAGA CAGCAAAACA TGACCTTAAC CAGAACACTA ACTAGCTTTA	360
TACATAATTC AGCCTATGAA CATGTATCTG GCAAGAGAAA TTCCTGATCT GTGGTTCGGC	420
AGATCCATGA GAGCTGCTTC TCCGGATTTT CTTTGCTGGC CCCTCTCGAG	470

(2) INFORMATION FOR SEQ ID NO:998:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 350 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:998:

TTTAAAGAGA GTTGC GTTAT TTTCTCCAAA AGCATTGTGTT GAGTTGGTCA TTTTGACAGT	60
TAACTGTCGG TTTTACCTG CATTCTAGG TGCTAAACT TACAAGTGA TCTCTGAAC	120
ACAGGCATTG ATCCTCTACC AATGAATAAT TGAGAGAGGT AGGAATGACT GATTTTCTA	180
GTTGTAGTTT GAAAGATTAA TTTGATGAAT TGGAAAGTAT GGAACTATT CTGTTACTAT	240
TGCAAAGAAA GATTATTTT TTTAAAAAAT TTATTTTAT TTATTTTATT TTATTTTATT	300
GGGCAGGTCT GGCTCTGTCA CCCAGGCTGG AGTGCAGTGG CAGACTCGAG	350

(2) INFORMATION FOR SEQ ID NO:999:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 266 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:999:

GGAGTATTGT TACAATCACA TTTGAAGTAC CAGGAAATGC AAAGGAAGAA CATCTTAATA	60
TGTTTATTCA GAATCTCCTG TGGGAAAAGA ATGTGAGAAA CAAGGACAAT CACTGCATGG	120
AGGTCATAAG GCTGAAGGGA TTGGTGTCAA TCAAAGACAA ATCACAACAA GTGATTGTCC	180
AGGGTGTCCA TGAGCTCTAT GATCTGGAGG AGACTCCAGT GAGCTGGAAG GATGACACTG	240
AGAGAACAAA TCCATTGGTC CTCGAG	266

(2) INFORMATION FOR SEQ ID NO:1000:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 309 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1000:

GTAATGGGAG ATGGACATCC ACTGTTTCAT AAGAAGAAGG GGAACAGAAA GAAGCTAGTA	60
GAGCTGGAGG TGGAGTGCAT GGAAGAGCCT AATCACCTTG ATGTGGACCT GGAGACCCGG	120
ATCCCTGTCA TCAATAAGGT GGATGGTACT TTGCTGGTGG GTGAGGATGC CCCTGCGCCG	180
GCTGAACTGG AGATGTGGTT ACAGGGTCAT CCAGAGTTTG CTGTTGATCC CCGATTTCTA	240
GCGTATATGG AGGATCGCAG AAAACAGAAG TGGCAAAGAT GTAAAAAATA TAATAAGGCA	300
GGACTCGAG	309

(2) INFORMATION FOR SEQ ID NO:1001:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 306 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1001:

CACGTCAGGA GAATAGAATG GAAAAATTTT ATTTCACAG AAAGAAGTTA ATTTAGAAAA	60
TTAGTTTAAA ATACATTGA AAACITAAAG AGCAAAAAGC ATTTGTAAAC AAACAAAAAA	120
TAAACCAAAA AAACCTGAT GAGGTTACTA CTAATAGTAA CTGTAGGAGG CATCTACCTC	180
CCTAGATTGG GGAAAGAAGT AGTGGTTGAA TTATCAGAAC CTAGAAGCAC AGAACAGGGG	240
CCCCTCAGAA TGTGTTCTCA GACTCCTGAG GGAAGGATGC TACCAGCTA CAGCTGGTTC	300
CTCGAG	306

(2) INFORMATION FOR SEQ ID NO:1002:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 541 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1002:

GAATTCGGCC TTCATGGCCT ACACCCTGCT AATTTTGTG TTTTITTTTG TAAAGGCTGG	60
GTCTCACTAT GTTGCCAGG CAGGGTCTCG CTATGTGCG CAAGTGGGTC TCGAACTCCT	120
GGGTTCAAGC AATCCTGCCT CGGCCTCCCA AAGGGCTGGG ATTACATGCA TGAGCCATCA	180
CATCTGGCCC CCACCCATCT TAAAAGTCAG AAATAAAAGC CAGAGCCCCT CTTGACCTC	240
CTGGCCCCCT CCGCTTTATC ACCCCACCTC TCTGCCTGTC TTTATTGCAA AACCCCAAGA	300
AGGTTATCAG GCTCATGGTC TTCCTCCTG TCCACACTGC CCCAACTACA CAATGAGATG	360
CCCCCATTC AACTCCCCAG CCTCCTCTGC TGGCGTCTCC TCCTTCCTAA TCTCTGAACA	420
TTGTCCCATC CAAGGGCTCA GTCCCAGGTC CGTTCACCCC TTGTCCACAC TCACCCTGAG	480
AGCTTCCAGT CTGTGGCCTC CATGCCCTGG AATGAGCCCC TGTAAGATCC ACAATCTCGA	540
G	541

(2) INFORMATION FOR SEQ ID NO:1003:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 602 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1003:

GAAACGCCTC CTGATTTTGT CTTACAATGG AACTTAAAA GTGCCTGAC GGTGGATGGG	60
GCTGGGTGAT TGTGTTTGT TCCTTCCTTA CTCAGTTTT GTGTTACGGA TCCCCACTAG	120
CTGTTGGAGT CCTGTACATA GAATGGCTGG ATGCCTTTGG TGAAGGAAAA GGAAAAACAG	180
CCTGGGTTGG ATCCCTGGCA AGTGGAGTTG GCTTGCTTGC AAGTCCTGTC TGCAGTCTCT	240
GTGTCTCATC TTTTGGAGCA AGACCTGTCA CAATCTTCAG TGGCTTCATG GTGGCTGGAG	300

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GCCTGATGTT GAGCAGTTTT GCTCCCAATA TCTACTTTCT GTTTTTTCC TATGGCATTG      360
TTGTAGGTCT TGGATGTGGT TTATTATACA CTGCAACAGT GACCATTACG TGCCAGTATT      420
TTGACGATCG CCGAGGCCTA GCGCTTGGCC TGATTCAAC AGGTTCAAGC GTTGGCCTTT      480
TCATATATGC TGCTCTGCAG AGGATGCTGG TTGAGTTCTA TGGACTGGAT GGATGCTTGC      540
TGATTGTGGG TGCTTTAGCT TTAAATATAT TAGCCTGTGG CAGTCTGATG CGACCCCTCG      600
AG                                                                                   602

```

(2) INFORMATION FOR SEQ ID NO:1004:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 378 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1004:

```

GCGGCAATGA TACCCACTGC CAACCAACAA AAATTGGCTG CAACCATCCC CTACCAGGAC      60
CGAGCCCTTA CAGGTGAGCG GCTCTGCCAG GCCCTGGCTC CTGCCCGCAT GCACCCAAGC      120
CGGAGCCTGG GGCAGCTCCT ACGAGGCTCA CCAGGGCCCC AGCAGGATGC CTGGGTCCCC      180
TGCTCCTGCT TGGCCAAAGG GAAGAGGAAG CAGCAGGCAG GGGCTGGGGA GGCCTTCATG      240
AATTACATGA ATTATCCTTC TTTTTTTTTT TTTCCCTTT TTTTTTTTTT TTTTTTTTTT      300
TTTTTTTTTT TTTTTTTTTT TGAGANNCCA NTTNAAAAAA AAAAGGGGGG GGTGTCAGGG      360
TTTCATTGAG AGCTCGAG                                                                 378

```

(2) INFORMATION FOR SEQ ID NO:1005:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 208 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1005:

```

GAATTCGGCC TCCATGGCCT ACTGTTTAT TCCCGCTTT TATTTGCTT TTGAAATCTT      60
TTTCCTTGGT GGATTTGTAC GTGTCTTCAC TAGATGCCTC AAATTAAGTC TGACCACAAT      120
CCTACTCTAC TTTCTACAGT GGAGAGACCA TCCTCCCTGC CCCAGGGCTG TCTCCACCCA      180
CCCCCCCCTC CCCACCCGCA CCCTCGAG                                                                 208

```

(2) INFORMATION FOR SEQ ID NO:1006:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 396 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1006:

```

CTGATCTGTG AACCTTACAC GAGCAAGGAA TTATTCGGG TTTGGATAC ACCCTACTTA      60
CTAAATGAAG ACTGGGAATA CTATCTCTCT GGGAAGCTAT TTAATAAATC AAAAATGAAG      120
CTCACTTTTG AACAAAGTTTA CAGTGACTGC AAAAAAATA GAGGCACTTA CGGCACTCTT      180

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CACCTGCAGA ACAGCTTCAA TATCAGTGAA CATCTCAACA TTAATGAGCA TACTGGAAGC	240
ATAAGCAGTG AATTGGAAAG TCTGAAGGTA AATCTTAATA TCTTTCTGTT GGGTGCAGCA	300
GGAAGAAAAA ACCTTCAGGA TTTTGCTGCT TGTGGAATAG ACAGAATGAA TTATGACAGC	360
TACTTGGCTC AGACTGGTAA ATCCCCCGCT CTCGAG	396

(2) INFORMATION FOR SEQ ID NO:1007:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 290 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1007:

GAATTCGGCC TTCATGGCCT AGATGGGGGC TAGTTTTTGT CATGTGAGAA GAAGCAGGCC	60
GGATGTCAGA GGGGTGCCTT GGGTAACCTC TGGGACTCAG AAGTGAAAGG GGGCTATTCC	120
TAGTTTTATT GCTATAGCCA TTATGATTAT TAATGATGAG TATTGATTGG TAGTATTGGT	180
TATGGTTTAT TGTCCGAGA GTATATTGTT GAAGAGGATA GCTATTAGAA GGATTATGGA	240
TGCGGTTGCT TCGTGAGGA AATACTTGAT GGCAGCTTCT GTAGCTCGAG	290

(2) INFORMATION FOR SEQ ID NO:1008:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 311 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1008:

GTGGTTCTGA AATCACCCCT CCTTTTCACT CCTCTGCCCT GACTTCCTCT CTCACCATGC	60
TCTCCTGCTC TCCACCTTCA CCCTCTTCAG TGGGATTTCG GCATTTCAGC CAGAGGGACC	120
TGTCTGCAGC TACCAGATGC TCCCCACCCT GGGAGAGCTC AGCGGCATGT CTGCACATGG	180
GCCTTTTCAG CCTTCTTCAT CCCGCAATTG GAACTGACTT TCCCACTCCC ATCTCACACT	240
TGAGAATCTC TGTTTCTTGT TTCTTGTTT TTATTTTATT TTTATTTTCT CTCCCCCTG	300
GCGGACTCGA G	311

(2) INFORMATION FOR SEQ ID NO:1009:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 391 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1009:

GGANCAGAGT CCAANAGATN AATTATATTC AGAAAACTCT GTTCAAGATA GGGTATGATT	60
ACAAATTGGA ACAGATCAAA AAGGGATATG ATGCACCTCT TTGCAATCTG TTAGTGTFTA	120
AAAAGGTCAA GGCCCTGCTG GGAGGGAATG TCGCATGAT GCTGTCTGGA GGGGCCCCGC	180
TATCTCCTCA GACACACCGA TTCATGAATG TCTGCTTCTG CTGCCCCAAT GGCCAGGTT	240
ATGGACTGAC AGAATCATGT GGTGCTGGGA CAGTTACTGA AGTAACTGAC TATACTACTG	300

GCAGAGTTGG AGCACCTCTT ATTTGCTGTG AAATTAAGCT AAAAGACTGG CAAGAAGGCG 360
GTTNTACAAT TAATGACAAG CCAAACCTCGA G 391

(2) INFORMATION FOR SEQ ID NO:1010:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 415 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1010:

GGGGAAGAAA GCGTAAGGA TGGTGAAGCT GAACAGTAAC CCCAGCGAGA AGGGAACCAA 60
GCCGCCTTCA GTTGAGGATG GCTTCCAGAC CGTCCCTCTC ATCACTCCCT TGGAGGTTAA 120
TCACTTACAG CTGCCTGCTC CAGAAAAGGT GATTGTGAAG ACAAGAACGG AATATCAGCC 180
GGAACAGAAG AACAAAGGGA AGTTCCGGGT GCCGAAAATC GCTGAATTTA CGGTCAACCAT 240
CCTTGTACAG CTGGCCCTAG CTTTCCTTGC GTGCATCGTG TTCCTGGTGG TTTACAAAGC 300
CTTCACCTAT GATCACAGCT GCCCAGAGGG ATTCGTCTAT AAGCACAAAC GCTGTATCCC 360
AGCCTCCCTG GATGCTTACT ACTCCTCCCA GGACCCCAAT CCCAGAAGCC TCGAG 415

(2) INFORMATION FOR SEQ ID NO:1011:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 407 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1011:

GCCAGACTAC CACAAGCCCC ACCCACAATA TGCCAAGCCC TACCCATACC ACAGCAAGCC 60
CCACTCATA TCCACAAGC CCCACCCATA CCCCCACAAG TCCCACCCAC AAAACCAGTA 120
TGTCACCTCC CACCACTACA AGTCTACCC CCAGTGGTAT GGGCCTAGTC CAGACTGCCA 180
CAAGTCCCAC CCATCCTACC ACAAGCCCCA CCCATCCCAC CACAAGCCCC ATCCTTATAA 240
ATGTAAGCCC TTCACTTCT CTAGAACTTG CTACCCTCTC CAGCCCCTCC AAACACTCAG 300
ACCCCAACCT CCCAGGCACT GACTCCCTTC CCTGTAGTCC CCCAGTCTCC AATTCCTACA 360
CTCAGGCAGA CCCTATGGCC CCCAGAACTC CCCACCCAAG TCTCGAG 407

(2) INFORMATION FOR SEQ ID NO:1012:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 291 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1012:

GAATTCGGCC TTCATGGCCT ACGCCGCCGC CACAATGGGC CGCGGAGTTT GGGAACTCTGA 60
CGCGGATGCG GCATGTGATC AGCTACAGCT TGTACCGTT CGAGCAGCGC GCCTATCCGC 120
ACGTCCTCAC TAAAGGAATC CCCAATGTTT TCGCGCGCAT TCGGGAGTCT TTCTTTTCGG 180
TGGTGCCGCA GTTTGTAGTG TTTTATCTTA TCTACACATG GGGGACTGAA GAGTTTCGAGA 240

GATCCAAGAG GAAGAATCCC GCTGACCATT GAATTCTAGA CCTGCCTCGA G

291

(2) INFORMATION FOR SEQ ID NO:1013:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 351 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1013:

GAATTCGGCT TCATGGCCTA TGGATTACCT GAGGAAGAAG AGATCAAGGA AAAAAAACC	60
ACCAAGTCAAG GAAAGTCAAG TAGCAAGAAG GAAATGTCTA AAAGAGATGG CAAGGAGAAA	120
AAAGACAGAG GAGTGACGAG GTTTCAGGAA AATGCCAGTG AAGGGAAGGC CCCTGCAGAA	180
GACGTCTTTA AGAAGCCCCT GCCTCCTACT GTGAAGAAGG AAGAGAGTCC CCCTCCACCT	240
AAAGTGGTAA ACCCACTGAT CGGCCTCTTG GGTGAATATG GAGGAGACAG TGAATATGAG	300
GAGGAAGAAG AGGAGGAACA GACCCCTCCC CCACAGCCCC GGCAGCTCGA G	351

(2) INFORMATION FOR SEQ ID NO:1014:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 596 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1014:

GCTCGAGTCG GATCCTCCCT GAATGTGGAG CGATGGGGGG TTGCACACAG GCCGTCTCTGC	60
CCCAGCAGCT AACAAGAAAG ACCCTTGCAAT TCCTCCCTGC ATCTCTCCCT TTTGGGTCTCT	120
ACTAATGTCT GTTGAATTTT TCTTTTTTCC AAAGCAAAAT CCTTCTCTGC ATTTTGTCTG	180
CTGTCTGTTT TCCCAGAGCC GCAGGACTCT CTCCTGTCTT GGAGTTCCAG AGAGCCCCCA	240
CTTTCTCTTT CTAAGCTGTG TTGTGTGTTT CCTGGTACAT TCTAGGTTCC CCAAAGATAA	300
ACATGACTAA GGATTGGAAA GGAGGAAAGG CCGCGCAGAT TGTTAATCTG AAAGTCAATC	360
CCCGGATTTA GCTCTCAAAA ATGCTTTTATT TTTGGAGAAA AGCAATAGAG TAAGACAGAA	420
GGACTTAAACG CTGTCAGGGA AGTGGCTTTC TGCCATGTAG AGCCAGGCTG GCAACCTGCC	480
CTCTGCCATC AGGGAGTGAG CATGAACCTG GAAACCTCTA GGACGCAAGA GCGAGGCTGG	540
CTGTCCCTC GTGTGCAGTG CTTAGACCTT CTTGCCACAC ATCCCATCCC CTCGAG	596

(2) INFORMATION FOR SEQ ID NO:1015:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 353 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1015:

GAATTCGGCC TTCATGGCCT ACTTGGTTTT GCTGACCAAC AAATATGCAT AGTGTCTATT	60
CACAGTTATA CAGTAATAGG TTAGAACAGA AATAAATGCC AGCTTCTTAT GATGCCTTTG	120
CCAACAATCA GGCCATGTGT TTCAGGACCC TTCCTTCCTC TGACTTGTGT AGCATTACAC	180

CTCAGCACAC	GACTTCTTGA	AAGAGTGAAC	CTCCAGGGCT	TGCTCTCTCA	GATGCACCTG	240
GGCAGCAGCA	GGAAGTGTCT	GACAGTCTCT	CCTGTCTCCA	TAAAGTAGCG	GGCTGGCTCT	300
TTGTGGGAG	TGATGGGAGC	CACAGATACG	TGCATGGAAG	TTACTGCCTC	GAG	353

(2) INFORMATION FOR SEQ ID NO:1016:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 300 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1016:

GAATTCGGCC	TTCATGGCCT	AATTATTAAG	TAAAATAAGG	GTTCTTGAA	TATAGGCACT	60
GCAAATACCA	TGACAGTGAT	CTGATCACTG	AGCTAACTAC	TGAGTGACTC	AGAGGCAGGT	120
GATGTATACT	GTGTGGAGTG	GAATGGTGAG	AGATTTTCATC	ACACTACTCA	GAATTGCATG	180
AAACTTAAAG	CTTATAAATT	GTTTAATTCT	GGAATTTTTC	ACTTAATATT	TTCTGACTGA	240
GATTGCCAC	GGGTAAGTGA	AACTGTGGAA	AGCGAAACTG	CAGATAATGG	CGGACTCGAG	300

(2) INFORMATION FOR SEQ ID NO:1017:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 491 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1017:

GCGATTGAAT	TCTAGACCTG	CTCGATCTCA	TGGGGCAGAT	GAAATTCTCT	TCCTTAGAGG	60
AAAGGGAAAG	GTGAGGCCCC	AGAGGACTTA	TCTCAGCTGT	ACATGCTCTG	CCTGTGGAGA	120
CATGGCTTTT	CTTTGTGCTG	TGGCAGACTG	GGGCTTTGGA	AGTGGTGAT	GTTTAACTTA	180
CCTGAGAGTG	AGAGATGTGT	AGGAAGAATA	GCTGGAAGAA	AGTGAAGAT	GAGTGCCACT	240
ACTTTTGCC	TGTTATCCAG	TAGAGAGAAA	GTGACAGTGA	AAGTAACGTG	AGAGAGAAAG	300
AGTGTGTGTG	TATATGTGAG	AGAGAGAAAG	AAAGAGAAAG	GAATGCTTGA	TTGCTTGTTC	360
TTCACGGGC	CAGCTCTGAA	ATCCAAAATC	ATGCCTTGAT	AACATTACAA	AACCGTGATC	420
CTGGGTTTGA	GTGAATCCTA	GAGACATTGT	TCTTATGGCC	GCCTGGTTTC	CGCAGCATGA	480
TCACCCTCGA	G					491

(2) INFORMATION FOR SEQ ID NO:1018:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 323 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1018:

GCTTTTCCAT	GAAAGGTGGA	TCGAGATCTA	CTGCCAGTGG	GTCAACAGGT	TCTAAATTGA	60
AATCAGATGA	GTTACAGACC	ATCAAGAAAG	AATTAACCCA	GATCAAAACT	AAAATTGACT	120
CCTTGCTAGG	GCGCCTGGAG	AAGATTGAGA	AACAGCAGAA	GGCGGAGGCA	GAAGCTCAGA	180

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AGAAGCAATT GGAAGAGAGT CTAGTGCTGA TCCAAGAGGA ATGTGTGTCA GAGATTGCAG   240
ATCACTCTAC AGAGGAGCCT GCTGAAGGAG GGCCAGATGC CGATGGAGAA GAGATGACAG   300
ATGGGATAGA GGTGGACTC GAG                                         323

```

(2) INFORMATION FOR SEQ ID NO:1019:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 319 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1019:

```

GGTCACAATC TCCTTGCACT CCAGGACTGG GCATACTCAT ATGCCTTCTG TGGTTGGCGT   60
CCTTGATATT ACCCAGTTT GGTTCGGTT TCCTCTTCA CACTTCCTGT CATTGGCTTA   120
TACCCCTACC TGTGTCATTG GCCTTAACAA GGAATTAAAG ATGCCGAAAG TTCAGTATAA   180
ATCGAACTGT AAACCATCCA CATTGTCATA TCCTGCCCT CTGGAAGTAC CAAAAGAAAA   240
AGAAAAGGAA AAGGTTTCTA CTGCTGTATT ATCTATAACT GCCAAGGCTA AAAAGAAGGA   300
AAAAGAAAAG GAACTCGAG                                         319

```

(2) INFORMATION FOR SEQ ID NO:1020:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 450 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1020:

```

GCGGGCATGG TGTGTAGCCT ATGGGTGCTG CTCCTGGTGT CTTCACTTCT GGCTCTGGAA   60
GAGGTATTGC TGGACACCAC CGGAGAGACA TCTGAGATTG GCTGGCTCAC CTACCCACCA   120
GGGGGGTGGG ACGAGGTGAG TGTCTGGAC GACCAGCGAC GCCTGACTCG GACCTTTGAG   180
GCATGTCATG TGGCAGGGGC CCTTCCAGGC ACCGGGCAGG ACAATTGGTT GCAGACACAC   240
TTTGTGGAGC GCGCGGGGC CAGAGGGCG CACATTCGAC TCCACTTCTC TGTGCGGGCA   300
TGCTCCAGCC TGGGTGTGAG CGGCGGCACC TGCCGGGAGA CCTTCACCCT TTAATACCGT   360
CAGGCTGAGG AGCCCGACAG CCTGACAGC GTTTCCTCCT GGCACCTCAA ACGCTGGACC   420
AAGGTGGACA CAATTGCAGC AAGACTCGAG                                         450

```

(2) INFORMATION FOR SEQ ID NO:1021:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 266 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1021:

```

GAATTCGGCC TTCATGGCCT ACTAGACCTG CTTTTTGGAA GAGAATGCTT TTCACCTGTT   60
CTTTTTTTTAA TCCACCTGGC ACTTTCCTCA GGACCCAAAC TTGTTCACTC TGCTGCTTCT   120
TGATGTATCA ATTTTGGGAC ATCACCTGTT GTCTCCTTGC TGTGAATGAT GAGGATTGTT   180

```

CCCATATTAC CCCC GTTCCT TCCCCGGTCA TTCTCTCGGT TGCCTTTGTC ACTTTAAATC 240
 ATTTACATAA ACCACAACCTT CTCGAG 266

(2) INFORMATION FOR SEQ ID NO:1022:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 352 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1022:

GAATTCGGCC TTCATGCCTA AGAAACTTAT TCGTCTTCAG CATGAGAATA AGATGTTAAA 60
 GCTTAACCAA GAAGGTTTCGG ACAATGAAAA AATAGCCTTA TTGCAGAGCC TTCTAGATGA 120
 TGCAAATCTA CGCAAGAATG AACTGGAGAC AGAGAATAGG CTGGTGAATC AAAGACTTCT 180
 GGAAGTACAG TCACAAGTTG AAGAATTACA AAAATCTTTA CAGGATCAAG GCTCAAAAGC 240
 AGAAGATGCT ATTTCACTCC TTCTAAAAAA GAAGCTTGAA GAACATCTAG AGAAGCTGCA 300
 TGAGGCCAAT AATGAACCTAC AGAAGAAGAG AGCCATTATT GAAGATCTCG AG 352

(2) INFORMATION FOR SEQ ID NO:1023:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 249 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1023:

GAATTCGGCC TTCATGGCCT ACAAAGCCA CCAGGTGAAT AAATGCCATT TTCTTTTTCG 60
 CTAGACATTG TTCATTTACT GAAATGAAC AAGGTAATGC TCAGCATACA AAAAAAATT 120
 AAAGTTCTCA AGATCCCATG CTTTCTGGAT TCCTCTGTAT TTATCACTCA AGTCATCCCC 180
 CTTTTTGTA TCTCGCTTTT TGTCTCGCT TTATTTAAAT CCTTTATATC ACTACCCCCA 240
 TCTCTCGAG 249

(2) INFORMATION FOR SEQ ID NO:1024:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 267 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1024:

GAATTCGGCC TTCATGGCCT ACAGGAAATA GGCAAAAATA CCCAGGAAAA GGAAACAGTT 60
 TTATGCATTA GTGCTGTACC TTCTTCATAT TGTCAAAAT AAAAGATAGT AGAGATTTAT 120
 TGAAACATT TTAAATAAAG AAGTTGTGTT CATAATATAA AGCTGCCTTA AACTATATAT 180
 GAAAAAACT GTAAATCATA GAAATAACT TTATCAAAGA TGTAAATAA TACATTTTAC 240
 AGAATAATTT CCCATGGGCT TCTCGAG 267

(2) INFORMATION FOR SEQ ID NO:1025:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 232 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1025:

```
GAATTCGGCC TTCATGGCCT AGCCATCTTA TTGAACTAT ATTTTTCCTT CAAAGAAGCA    60
ATAGGTCTCA ACATAGTGTA GGTAGCATCA GGTGACAGAA AGCCAATTTT ATTTTCAAAT    120
TTAAGTTAAT TATCTTCGTG ATCCTATTTA TCCACAATTT CTTTCAGAAA AGACTGAAAA    180
AACACATTAT ATTCAAGAGA TATAATGAAA TTATTGGAAG GCATCACTCG AG          232
```

(2) INFORMATION FOR SEQ ID NO:1026:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 153 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1026:

```
GAATTCGGCC TTCATGGCCT AGATTGAATT AGACCTGCCT CGAGCCCCTA AAAATATCCT    60
AAATGCAITTT CCTCCTCTGC ATTCTAACTA CTGCTGCCCT TGTTCTAGGA CTCCACTCTC    120
CCACATCAAC CAACTTTTCT CCTGGCCCC CTC          153
```

(2) INFORMATION FOR SEQ ID NO:1027:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 294 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1027:

```
GCGAGGGCCA GGGAGGGAGG AAGCAATAAA TAGGGGGAGA AAATGGCAAT AAGACGTTAT    60
ATAGCCCTTC TAACAAAAAT ACCAGAAGGG AGGGGTGAGG GACAAGGCTG TCTGAGGGAG    120
GGCAGGAGGT GAGGCCATGG CTGGTCTCT TTTGCGCTTG GATGGCCGTC AGCTCAGCAT    180
GAGGCATCTG AAAGAACTAC CCAGATTGCA GAAGAGAGAG GTCCCAGCCT CCTTGAAGG    240
ACATGATGGG GGAGGAGTGG AGACAACAGC TGAGTGTTAC CTGTAAAACT CGAG          294
```

(2) INFORMATION FOR SEQ ID NO:1028:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 285 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1028:

GAATTCGGCC	TTCATGGCCT	ACACACATAC	CCAACACACA	CACAGACACA	CACATACACA	60
GAATCAACAC	TCAACACGCA	AACACCCAAC	ACACACATGC	ACACACACTT	TCTGAAGATG	120
AGTTTTCTCA	TTTATGAAAT	GAGCTCATCT	GGACTTGCCA	TGAGGGTCCA	ACAGGTGCCA	180
TGCAATCAGG	TGTGCACTCA	GTATGGGCTG	GGTGGAGATG	GCCATCTCCT	TTCCCGTCCA	240
GGCCTGGTTC	CTGTGTGCTG	GGCCTCTGCT	CTTCCCCCCC	TCGAG		285

(2) INFORMATION FOR SEQ ID NO:1029:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 263 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1029:

GACAAGCTGA	GAAAATGAAA	GGAAAAC TAG	AAGAATTGTC	TAATCAGTTA	CATCGCAGTC	60
AAGAGGAGGA	AGGAACACAA	AGAAAGGCCT	TGGAAGCCCA	AAATGAAATA	CATACCAAAG	120
AGAAGGAGAA	GCTGATTGAT	AAGATTCAAG	AAATGCAGGA	GGCCAGTGAC	CACTTGAAGA	180
AACAATTTGA	AACTGAAAGT	GAAGTCAAGT	GTAACCTCCG	GCAGGAAGCA	TCCCGGCTCA	240
CTTTGGAAAA	CAGGGAATC	GAG				263

(2) INFORMATION FOR SEQ ID NO:1030:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 243 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1030:

GAATTCGGCC	TTCATGGCCT	ACCTCCTACA	AATTTAATT	TTTTATGAAA	TTTTTAGGTG	60
ACTTGTAAT	TCTTCATGTA	TGAGGAGTTG	TGTTTATTAA	TGCTACTTTT	TAAATTTTCC	120
TGTGCCATGT	GGCAGATGTT	TATTCTCTTA	ATGCACTTCA	GGTTTGCTAT	CTGTAAAGCC	180
TTTGACCCAG	GCCTACTGAG	TCAAATCTAC	ATTCAGTGTA	ACATTAAAGG	CAGAAACCTC	240
GAG						243

(2) INFORMATION FOR SEQ ID NO:1031:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 246 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1031:

AATTCGGCCT	TCATGGCCTA	ATTGAATTCT	AGACCTGCCT	CGAGATTACA	GCCAGAGTCT	60
CCTAAGTCT	CTCCATCTAT	TCTCTAATCC	CAATAGCTAC	TCTCCATGCA	GCTGTCAGAG	120

TGGGCCTTAT AAAACATTGG TCAGGTCATG CCAGGCCTCC GATGGCTCCC ATCACACTCA	180
GGGTAAGAGC CGAAGCCCCA TGTGGGTGTC TAAGGCCCCG TGTGATCCTT ACCCACTTCT	240
CTCGAG	246

(2) INFORMATION FOR SEQ ID NO:1032:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 114 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1032:

GAATTACAC CTGCCTCGAG TACTCCCATG CCACTTTCAG CACAAATATC ACTTATTATG	60
TGCTGCTTGA ATATTATTTT CTTTATTCT AAGTTTGGTC CATTCACTCT CGAG	114

(2) INFORMATION FOR SEQ ID NO:1033:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 302 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1033:

GAATTGTTGT TCTTTCTTT TCCATGATAT CATTATATGG ACAGTTTAGG GTGGTCTCAT	60
GGATTATAAC CATTGGGATA TTTGGTTCAC TAACAATTTT CTTACTGGCC AGAGTTCTTG	120
GTGGAGAACT TGCATATGGC CAAGTCCTTG GAGTTATAGG ATATTCATTA CTCCTCTCA	180
TTGTAATAGC CCTGTACTT TTGGTGGTTG GATCATTGA AGTGGTGTCT ACACCTATAA	240
AACGTGTTTG TGTGTTTGG GCTGCCTACA GTGCTGCTTC ATTGTTAGTG GGAGATCTCG	300
AG	302

(2) INFORMATION FOR SEQ ID NO:1034:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 262 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1034:

GAATTCGGTC TTCATGGCCT ACCTGAGCAC TCTGCATTTT AATTCTGTGT TCTTCCCTT	60
TATCTATGTG TTGTCTCTGA GGAAATGTCC TTTAATGTCT TCCTCAGGCT TGATACCTAA	120
TTTGAGATGG TTCAAACAAT TTTTCCCTTT TCCCTTCACT GGAAGCTTTG TTAATCATTC	180
TGTTTGCTTT CATACTTTCA AATGCTGTCT TTTTATTTT GGTGGTATTT TTTTCTCTT	240
TCTCAGGTGT AACATACCTC GG	262

(2) INFORMATION FOR SEQ ID NO:1035:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 388 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1035:

```
GAATTCGGCC TTCATGGCCT ACCTACTAGG CATGTTTTAT GACACAGATG ATGCGAGTTT      60
CAAGTGGTTT GATAATTCAA ATATGACATT TGATAAGTGG ACAGACCAAG ATGATGATGA      120
GGATTAGTTT GACACCTGTG CTTTTCTGCA CATCAAGACA GGTGAATGGA AAAAAGGAAA      180
TTGTGAAGTT TCTTCTGTGG AAGGAACACT ATGCAAAACA GCTATCCCAT ACAAAGGAA      240
ATATTATCA  GATAACCACA TTTTAATATC AGCATTGGTG ATTGCTAGCA CGGTAATTTT      300
GACAGTTTGG GGAGCAATCA TTTGGTTCCT GTACAAAAAA CATTCTGATT CTCGTTTCAC      360
CACAGTTTTT TCAACCGCAA CCCTCGAG                                     388
```

(2) INFORMATION FOR SEQ ID NO:1036:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 258 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1036:

```
GAATTCGGCC TTCATGGCCT ACTTTTGTAGT AAAGAGCAAA CTCATAAATT TTGGCATCAG      60
AGTTTGAGCT TTATTTTCTT TAAATGAGTT TGAAATCAAT TTAATATTTC TCTCCAATTC      120
CCTAATGTCT CAGAAGTGAA TTTACAGTAT ACCTTTGTTC TTTCGTATTC TTAAGTAGTA      180
TTTGGATTTT ATTTAGTAGT TGCACTACTA AATAAGGAGT GGGGAGTTAA TTACAAAACG      240
AATCAGGTGA CTCTCGAG                                     258
```

(2) INFORMATION FOR SEQ ID NO:1037:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 85 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1037:

```
GCGATTGAAT TCTAGACCTG CCTCGAGTGA TTTGGCCTGC ATGGTTTTCC TCCTACCCCT      60
TTTTCTTTGC CTGGGTCAGC TCGAG                                     85
```

(2) INFORMATION FOR SEQ ID NO:1038:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 248 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1038:

GCGATTGAAT TCTAGACCTG CCTCGAGGGG TTTGGAGCTC TGTGGGTGG TGACCTCAGT	60
CCTGTTTACC CCTGCAGAAG AAGGACCCAG CCCAGTTCCT GCAGGTACAT GGCCGAGCTT	120
GCAAGGTGCA CCTGGATTCT GCAGTCGCCC TGGCCGCTGA GAGCCCTGTT AATATGATGC	180
CCTGGCAGGG GGACACCAAC AACATGATTG ACCGATTGCA TGTCCGTGCT TAGGCCATGA	240
AGGTCGAG	248

(2) INFORMATION FOR SEQ ID NO:1039:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 253 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1039:

GAATTCGGCC TTCATGGCCT AGTCACTTAA ATAGATTGG TGTGAAATT TATGATAAAA	60
GGTGACTTTT GTTCTAGTAA GTATTCTCAA AGAAAAGAGA GTGAGTAGCT ATTTTGGGAT	120
GAAGATAGTT ATAACGTAGA TAGCGGTTTT TGTTTTTGTT TTTTGTTTT GGCCAGGCG	180
GAGTGCTGTG GTGCGGTCAT GGCTCACTGT AACCTCAGCC TGGGGTCAAG GTCTGCCCAT	240
CTCAACCCCTC GAG	253

(2) INFORMATION FOR SEQ ID NO:1040:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 232 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1040:

GAATTCGGCC TTCATGGCCT AGTTCAAAAA TAAAGCAAAT ATTTATTTTG GTATTGTTTT	60
GAGCACAGCT GATTTTAAAC ATTTTCTTTC ATAACACTCA GAAATCAITA ACAATTGTTT	120
GCTCATTTGG TATGGGTTTT TTGTTCTCTT TTTTTTTTTG GGTTCCTTTA GGTGCTTTCT	180
TTTAACATTG GTCATGTTTC ACCCTTTTTT TTTTCATCCC CCCAGTCTCG AG	232

(2) INFORMATION FOR SEQ ID NO:1041:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 272 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1041:

GAATTCGGCC TTCATGGCCT ACAAGGACGT TAAAGGCATT TTATTCCAGC GTCTTCTAGA	60
GAGCTTAGTG TATACAGATG AGGGTGTCCG CTGCTGCTTT CCTTCGGAAT CCAGTGCTTC	120
CACAGAGATT AGCCTGTAGC TTATATTGTA CATTCTTCAC TGTCTGTTGT TTACCTACCG	180

TAGCTTTTTA CCGTTCACCT CCCCTTCCAA CTATGTCCAG ATGTGCAGGC TCCTCCTCTC 240
TGGACTTTCT CCAAAGGCAC TGGACCCTCG AG 272

(2) INFORMATION FOR SEQ ID NO:1042:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 286 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1042:

GAATTCGGCC TTCAGGGCCT AGATTAAATC TCAAGGTGGA CTAGGAGAGA ACAAGCAGAC 60
TTCTATAGAA CAGTGTCTTC CTTTGGTGTT GTTTACGATC AAGAAAAGAA AACCTTTGAC 120
TGGACACAGT TCCGCATCAT TTCCCGTTTG GACAAGAAGT CCGATGAGAG CCTGGAACAG 180
TATTTTATA GTTTGTGGC CATGTGCCG AATGTCTGTC GTCTACCCAC ATGGAAAGAT 240
GGCGGTCCCC CAGATACCAC CATCTACGTT GAACCCATTA CTCGAG 286

(2) INFORMATION FOR SEQ ID NO:1043:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 230 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1043:

GAATTCGGCC TTCATGGCCT AGTGTAATCT TATTGGGAAC CTAAACTGC TCTTAAAGTC 60
TTTTTGAAAA CTCAGACATA TTTTGGCAT TACCTTTTT TTATTGGAAA GGAAAAATGA 120
AAACCTTTCA TTTTATTAAT AATTCATAT TCCACTCCTG TATTTTCTTC TCTTGGATGA 180
TGATGGTGAT ATTATTTCTC ACTTTTCAAA ATAATACCCT GGGACTCGAG 230

(2) INFORMATION FOR SEQ ID NO:1044:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 238 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1044:

GATTCGGCCT TCATGGCCTA GGGAAAATAA AAATGTATTC AGTAGCACGT GGGTTATGGT 60
TTCTCATAGA CCAGGGGATA AGATTAAG TCACTGAAGA GTGGGAAAAT GCATGTTGAG 120
AAGATGAGAA TGGCCTGTAT TTTCTCCAGG GGAATCTGTG TAATGTGCCT TTTCCCTCTC 180
CAAATGCCTA GAACCATGGC ACTGTGTCTT ATTTATTAA CCGTTGGGCC GTCTCGAG 238

(2) INFORMATION FOR SEQ ID NO:1045:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 333 base pairs

- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1045:

TAATTCATCT AAGTTGTTGA ATTAGCATAA AGTTTTTAAT AAAATTTTAT GTAATTCCTT	60
TTTAGAGAAC TAACTTTTGA AATTGCTGAT TTTCTGTTTT CCGTTTCAAC ATTTTACACA	120
CTGGTAGTTA ATAGTTTTTT CTCTCCAGCT TACTTCGTGT TTGATTACT TTCCTTTTC	180
TGTCTTCTTG AGGTGGAAGC TTAGAGGATT AATGATTCCA TTTCTTTCTA ACGAAATCAC	240
TTAAACTAT AAATTTCACT CCAACTACTT CTTTAGCTAA ATTCCATAAA TTTTACTATG	300
TTGTGTTTCC CTTTTTCACT CCGTCTCCTC GAG	333

(2) INFORMATION FOR SEQ ID NO:1046:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 429 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1046:

GAATTCCTAGA CTGCCATTG TGGGGAGTGG AAGTGGCATG ACCTCAGGAG CCAGTTCCTGA	60
GTCCAGGTGA ACCAAAGCTC AGTTTCTTTC ATCTTTGAAC CTGAACCTCT TACCTCCAAG	120
AAAAGGGGCC CAGGAATTG GGCCTTCTTG TTTATTTGTC CTTCTGCCCC TCTCCCTATC	180
TAAACCCCTGG GTAAGGGTGA GCTTGAAGGT GATGGTGACA GTGGCTTCTG TGTGTGTCAG	240
TCCACCCTCC AAGCAATGCT TAGAAACCAG TCCATAAGCC AATTAACACA TCATTTTATG	300
GGCAGATTG CAAGTTCTCA GTTGTTTTACA TGTTTCGTTA AGTACTAACC TCCAAATTAA	360
TAAAGCATGA CACATGACAT CACACATTTC ACAATTTGTA CCCAAGCAAA GTTCATGGAG	420
GTACTCGAG	429

(2) INFORMATION FOR SEQ ID NO:1047:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 65 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1047:

GCTTGGTAGA CCACATCCAA GGGACGATGA GGTTTCCAG AGGAGGAGTG GTCACCATGA	60
TCGAG	65

(2) INFORMATION FOR SEQ ID NO:1048:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 498 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1048:

```
GAATTCGGCC AAAGAGGCCT AAATTTGGTT TAATGTGTCA TCAAACCTTG TATTCAGCTA    60
TCTAGAGCCA TTTTCTGGAT TCATGCAATA CATTTTCCCC AAACCCCTTT TATTTTGAAA    120
AAGCTCAAAC ACAGAAAAGT TGAAAGAATA GCGTAAAGAA CATCTGGATG TGGTGCAGGG    180
TCTCATGTTC ATAATCCCAG CACTTCGGAA GGATTATTTT AGACCAACCT GGGCAACATA    240
GTAAGACCCA ATGTCTACAA AAATGTTTAC GGATAAACCA GCGTGGTGG TGAGGTAGTC    300
CCAGCTACTC AGGAGGCTGA GGTGGGAGGA TTGCTTGAGC CCAGGAGTTC AAGGCTGTAG    360
TGAGCAATAA TCACATCACT GCATTCCAGC CTTGAGTAAC AGTGAGACCT GTCTCAAAAA    420
AAAAAAAAAA AACACCAAAA ACAACCAACT GTGTATATCT TGCCTGATA ATCCCCCGAA    480
TTCTAGACCT GCCTCGAG
```

(2) INFORMATION FOR SEQ ID NO:1049:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 443 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1049:

```
GAATTCGGCC AAAGAGGCCT AAGCTGAGAT GGGTGTAAAA AGTTAAGACA CAGCTTAAGA    60
CAGAAGCATT GTAAAACAGG AACAAATACT GGCTTAAACC TGATGTCTCT AACTATATTC    120
CTCTATTTTA AGAATGTTT AGTATCTGAT AGTTTCATCA GCCTTTCCAT TTCCAATAT    180
GTGACCTTTA TTCCCACCAT GTCCCAAATA AACGAGTCCT AGGATTTCCT AGAAGGTGGA    240
CCTCAATTAT TGTGTCCCTT TTATATATAA GGCAACATT GCTTTTAAGT TCTGTTGGAA    300
CATGGGAAct TTCACTAGAA TGCTTAGAAT GTTCAGAAAA AATGTCCCAA AGCTCTCTTC    360
TGGTCCATAC AAGACAATCA GAATGTAACA CAGTAGCAGA GGGTGTGGAA CATACACTAG    420
TCATATTTGA TTCTCTCTGT CAG
```

(2) INFORMATION FOR SEQ ID NO:1050:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 68 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1050:

```
GAATTCGGCT AAAGAGGCCT ACTTCTGGCT ATTTTCAAAT ATATAATATG TTATTGTTAA    60
CTATACTC
```

(2) INFORMATION FOR SEQ ID NO:1051:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 278 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1051:

GAATTCGGCC	AAAGAGGCCG	GAATTTGGCC	CTCGAAGCCA	AGAATTCGGC	ACGAGGGCAA	60
GACTCTGTCT	CCAAAAAAA	AAAAATTTAA	AAAAAAAAAA	ATTTTATAA	AAATTTTANT	120
TAANGTAAAT	TTAAAAATGT	TCAGTGAAAT	GGTAAAAAAA	AAAAAAGAC	GCACAAAATA	180
CCITCATGTT	TCTCATCTCT	TTTTCCCTTC	AGATTCTGCC	TTTCTTCCAA	TTCAGCTCTT	240
CTTTCCAGT	CTTCAACCA	ACCACCACGA	CTCTCGAG			278

(2) INFORMATION FOR SEQ ID NO:1052:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 307 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1052:

CTCGAGGACC	AAGGATGAAG	AGCATAAGAA	GATGAAGATT	GTAACTTGT	ATAAAATTAT	60
CTTGGTGAGA	AGACAAATG	TAAAGTAGAT	ATTGTAAATC	TTTACCACT	TGGGGTTGC	120
TTTTTTCCCG	GAATTCATCA	GAACCTTGAA	TTTTTTTTTT	AAATGGGCTG	TTTTTAATGC	180
AGGGGCTTTT	CTTCCCTAGA	AACCCAATTC	TAAGCAGAAA	AAGNAAAAAN	ACACCAAAAA	240
TAAAAAACCC	CCCTCGTGCC	GAATTNTNGG	CTTCGGGGGC	CAAATTCGGG	CCTCTTTGGC	300
CGAATTC						307

(2) INFORMATION FOR SEQ ID NO:1053:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 332 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1053:

GAATTCGGCC	AAAGAGGCCG	GAATTTGGCC	CTCGAAGCCA	AGAATTCGGC	ACGAGGGCAG	60
TTAAGATCTG	GGTGATTCTT	TAGGGAAACG	GCTGGTTGAG	AGGCTTTGAT	GGAATCCCAT	120
TCTCTGCTGT	GGCCAGAAGG	TGGTGCTAGA	GGCCAGTCCC	ACTTGATGT	GACCCTGGCC	180
TCTGCCAGGA	TTCAAACCAC	AAAGAACATT	TGGAAGTGGG	ATGTTTGCTT	TGAAGCAGCC	240
TGAAAACAAG	TGAAAAGGAA	ACCAAGATAA	CTCTCTCTCC	CTCCGCTGGC	AAGGATCAAA	300
AATACCTTGT	GCAGGGAAGC	CCGAGCCTCG	AG			332

(2) INFORMATION FOR SEQ ID NO:1054:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 389 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1054:

GAATTCGGCC	AAAGAGGCCG	GAATTCGGCC	TCGAAGCCAA	GAATTCGGCA	CGAGGCCTCG	60
TGCCGCGCCG	TTTTTTTTTT	TTTTTTCAC	AGGGGGGCAG	TCGGGATTAT	AATACACTGT	120
AGCAGTTGGC	TGGGGAAAAG	TCTATCAAAT	TCCATGACCA	ATTGGACTTT	TCTCCACCT	180
GTAATATAAA	TAAAATATGT	ACTGTTTCAT	ACTGAATTTT	TTCAATGCAT	TGGGGTTCAA	240
CATAAAAGGC	ACAAATAAAT	AAAAATATCA	TTAAATAAAC	GGAAATTACA	ATTTCAGTT	300
TCATGTGGAG	TTGTATCTCA	CTGTTTGGTT	ACTTTTTTCCA	ATTTAATTTG	ACAGACTTAG	360
TAATAGCACA	CAACTGTCCT	ACCCTCGAG				389

(2) INFORMATION FOR SEQ ID NO:1055:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 213 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1055:

GAATTCGGCT	AAAGGGTCTA	CGAGGTCAGC	AAGGACGCCC	AAGGAGACTC	AGTCATGAAA	60
GGTGAAGTGC	TCCTGTTTTT	CAGTGTGATT	GTCCTGCTCC	AGGTGGTATG	CAGCTGCCCC	120
GACAAGTGTT	ACTGTCAGTC	ATCTACAAAT	TTTGTAGACT	GCAGCCAGCA	GGGTCTGGCC	180
GAAATCCCTT	CCCATTCCCC	TCCGTGCTC	GAG			213

(2) INFORMATION FOR SEQ ID NO:1056:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 173 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1056:

GAATTCGGCC	TTCATGGCCT	AGCGATTCCA	GGTTTAAAT	AGTTTGTAAG	TTTTCAGTTT	60
CTACACACTT	TATCATCCAC	TCGTGATTTT	TTAATTAAAG	CGTTTAAATT	CCTTTCTCTG	120
TTTTCAGTTT	GATGCTGAGA	TCCATATTTA	GTTTTATAAG	CTTCCCCCTC	GAG	173

(2) INFORMATION FOR SEQ ID NO:1057:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 555 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1057:

GGTCATACTC	TCTCATCCAG	ACTGGAGTGC	ATGGAGTGCA	GTGGCACCAT	CTCGGCTCAC	60
TGCAACCCCT	GCCTCCCAGG	TTTAAGCAAT	TCCCCTGCCT	CAGCCTCCCG	AGTAGCTGAG	120
ATTACAGGCA	CATGCCACCA	TGCCTGGCTA	ATTTTGTAT	TTTGTAGTAG	GACGGGGTTT	180
CACCATGTTG	GCCAGGCTGG	TCTCGAACTC	CTGACCTCAA	GTGATCTGCT	CACCTCAGCC	240
TCCCAAAGTG	CTGGGATCAC	AGGTGTGAGC	CACTGCACCC	GGCCTAGTTT	CCATTTTCTT	300
GTGATATTT	ACTTCTATT	ACTCATTAAG	ACTATATTTT	ATTTCTTTAA	TATATTTTCC	360

CTTAGTTCTT TGAACATATT TATAAGAGCT ATTTTAAAGT ATTTGTCAGT TGAATCTAAC	420
ATCTTTTGGG GCCATTTTCT ATTGACTGCT TTTTCTTGA TGATGAGTCG CATTTCCTT	480
TTTGCCTATC TAGTAATTTT TAAATTATAT ACTGTACCTT GTGGATGTAT GGTAGAGACT	540
CTGGGGTCTC TCGAG	555

(2) INFORMATION FOR SEQ ID NO:1058:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 324 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1058:

GAATTCGGCC TTCATGGCCT AGAATGTTAG AAGGTGCCTG CCGAGGCGGG ACAGAGTGTT	60
CGCTCGCGCT GGAGAAGGCT CTGCTCAGCC CTGAGAGTCC CTCCTGCCC CACCGATACT	120
GGCACTTTAA CAAGGAAGCT GACCGCACAG TGCCAGACG AATTGGCCCC CAGAAGATGG	180
GGAGTTCTGT CTTGCCCTTC TGTGTCTGCG TGACCTCACC CAGCCTAGGA GGGAGGTGCA	240
TTCAGGGTAG ATTGCTCTT CATTCAAAGT TCTGGGGCTT TGGGTGGAAA ACAGCCAGCT	300
TTGGCGCTGC TGGGAGACT CGAG	324

(2) INFORMATION FOR SEQ ID NO:1059:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 219 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1059:

GAATTCGGCC TTCATGGCCT ACTTGATGCT GCAAAGAACA AGATGCGAGT GAAGATCAGC	60
TATCTAATGA TTGCCCTGAC GGTGGTAGGA TGATCTTCA TGGTTATGA GGGCAAGAAG	120
GCTGCCCAA GACACGAGAC TTTAACAAGC TTGAACCTAG AAAAGAAAGC TCCTCTGAAA	180
GAGGAAGCAG CTATGAAGGC CAAACAGAG CAGCTCGAG	219

(2) INFORMATION FOR SEQ ID NO:1060:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 292 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1060:

GAATTCGGGC CTTCATGGCC TAGTATTTAT AGCCAAGGAA ACAGGGCTAT GAGTTTGTAC	60
TGTAGGCAGC AGTAGGGAGG GGAATTGGA AGCAGGGGGG AGGGCTCTGC AGTAGTTCAG	120
TTGATGCATA CATAAGGCCT GAATTAGGGA ATTAGGAGAG TGATCATAGG TGTGGAAAGG	180
AGGGGAGGGC TTCCAGGCAC ATTTGGTGTA AAATGGATAC AACTTGGTAA CCTGTACATT	240
GCTACCTTTG CACATTGGT TTCCCTGTC TCAAAGGCTC CCTCTTCTCG AG	292

(2) INFORMATION FOR SEQ ID NO:1061:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 386 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1061:

```

GAATTCGGCC TTCATGGCCT AAAGAAAACA AACAAACAAA GAGAAAACCC ATGAGCATTT      60
TAATTCGTGAC TTTTCTACTT TTCTCCCTAC ATTTAGAATA CTGTGGCACT TTCTGTTATC      120
CAAATGTGTC TCAGTCTCCA TATTTAAGGA CTGTGGGTGA AAAGCTTCTA CCTGGAATTG      180
AAGTGCTTTG GACAGGTCCC AAAGTTGTTT CTAAAGAAAT TCCAGTAGAG TCCATCGAAG      240
AGGTTTCTAA GATTATTAAG AGAGCTCCAG TAATCTGGGA TAACATTTCAT GCTAATGATT      300
ATGATCAGAA GAGACTGTTT CTGGGCCCGT ACAAAGGAAG ATCCACAGAA CTCATCCAC      360
GGTAAAAGG AGTCCTCACT CTCGAG

```

(2) INFORMATION FOR SEQ ID NO:1062:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 316 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1062:

```

GAATTCGGCC TTCATGGCCT ACATGAAGCT GAATTACTCT CATCTTATAT CTCTCTGCAG      60
TGGCATATCC TGATGGTGAT TTCCTCTTTT TGTGCCTCAG TTTCACCCCC TATGGAATGG      120
GGATAAACAC TTGCGGCTGG GCATGGTGGC ATGTGCCTGT AGTCCCAGCA CTTTGGGAGG      180
CTGAAGTGGG AAGATTGCTT GAGGCCAGGA ATTTGAGACC AGCCTGGGCA ACATAGTGAG      240
ACACTCTCTC TACAAAAAAA AAAAAGAAAA AAAAATCAG ATGTGGTTGG TGCATGCTAC      300
TGAGGCGAAA CTCGAG

```

(2) INFORMATION FOR SEQ ID NO:1063:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 289 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1063:

```

GAATTCGGCC TTCATGGCCT ACTAGACCTG CCAAGCTTTC TTCCTTCATA CTACATATTT      60
CACAAAATTT GTCGTCAGG TCTGCAAAAA TACCCTCCGG CTGCGGCAGG CAGCAAGACG      120
GCCGTTTGTT GCTATTAATT ATGTGCCAT TAGGGCAGAA TGTAAGATGC TTTTAAATTC      180
TTAACCTTAT ATGTTGTGCT TCTGACCAIT TTCTCTTTC CTCTCTTTC TTTTCTTTC      240
GTTTGTGTTGT TTGCAATAAA CATAAGTTCT TGTGTACAGC CCACTCGAG      289

```

(2) INFORMATION FOR SEQ ID NO:1064:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 288 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1064:

GAATTCGGCC TTCATGGCCT ACAGAGCTGA GAAATAATTC CCTTGTGTGT TTATAAGTAA	60
GAGTTAAATC CCTCCATTG TAATGTAGCA CCAGATCGAA GTAAACAGAC TATGATTCA	120
GTGCTAGACA CAGCCTTAAG GCAGAAGAAA TTACACTGTC ATGCAAAGGA TATGTAGCTG	180
CTGCTATTTT GGTGCTTGAA TTCTTCGTTG TCACATAGTT GAAGGCAATC CAGATGAGGA	240
AGAGTGTTAA CCAACAAAAA GAGAAAATTC CCTGCACATG GTCTCGAG	288

(2) INFORMATION FOR SEQ ID NO:1065:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 495 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1065:

GAATTCGGCT TTCATGGCCT ACTGGGAGCT ATCTTGTCTA CCTTGAGGTT CCTGAACAAT	60
GAATTCCCAT TAATGAGCAG TCTTCAGTAT TAAAACCACT GTCTTGTAC CTCATTTTGC	120
ATTACTGTCT TCCGTGGATG TTTCAGTTAC AACTGTAATG TTATTATAG AACAACTTA	180
ATCCATTAAA GCTAACCTAT TTTTCAATAT TTATGATAAT CTATGTACAT ATATTGTCTG	240
TCCATATGTA TTTGTAAATA GGTGTATAT AATGTCAGGT TTGGGTCTTG GGTTCAGTG	300
TATATATTCC TGTAAGTTTC TTAACGTCAT TTTGATGAAT TCACATTATG TAACTATAAG	360
AATTGTCCCA AAAGTACCTG TACAGAAAAT TGAATATTGA AAAATTGACA AATTGTGTAC	420
AAACACTAAA AAAAAGCTGT TTAAATTGTA TTTGCAATAA ACAACATCAA ATTTTTCAT	480
GAAATCTGCC TCGAG	495

(2) INFORMATION FOR SEQ ID NO:1066:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 507 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1066:

GAATTCGGCC TTCATGGCCT AAAGATTATA AAGGAAAGGG GGGTAGTTAA GATTTAGAAT	60
TCAAGTTAAA TTTCAGAAAT TGGGGCAGTC AGGCATTGT ATCTTTTAGG GCAACAAGTA	120
AAACATGTAG AGTGCTTGCT ATCCCACTTC ATAAAGCTTT TACCCAATCT TATTTCTAAA	180
CCTCTGTGCA TTCTTAGTGT CTTCCTATTC TGAACAGAA AATAAGGAAA AACATTTAAC	240
TTAGTTTTCT AAAATCAGAT AATCCTAAAC AAAAAATGTTA GTCAGGGTCA CTA AAAAGTA	300
TTGCACATTT ATATAAATAC AGTCCTTTTA AAATTTGACT TTAAAAAAC AAAAGACTTT	360
GTACGATATT GTGTTTTTAT TGGGTTTGCA ATATTTTAT AGTAGCCTTT ATGAAGCTCAG	420
TATAAGTGCA AGTTGTTTGA AAAGGTGTTT TTATTAGTGC ACAATAGAAT TGTGAGTTT	480
TCAATAGATG TCATGAGATT CCTCGAG	507

(2) INFORMATION FOR SEQ ID NO:1067:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 393 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1067:

```
GAATTCGGCC TTCATGGCCT ACTTATTTTT TTCTTTTAAA CAAATAAGCA CACATTCTTT      60
TTAAATAAAG TTTCTCTTCC CCAACCTAAA AGTAGTAATG CTAGAATTG AGCATAGCAG      120
AAAAATATTT AGGAAAATTA AATCCCAAAC AAGAGAGACC ATCTTGGAAT GTGCTCACTC      180
GGGTGGAAAG TCGACCCAGG TGCCTGTGTG CTTGACAGAG GCGTGGCTGC ATCCGCGTAG      240
CTGACCTTCA GATGGACTGG AGTTAGCACA TTTGTAGTCA TTTTCCAAC CATTCTTTTCG      300
TATCTGAGGT ACGTTTTTGA CCTGTTT TAGTGTCACTC GCGATCTTGA AGCACACTCT      360
TTCATTTACT TAAATATTTT CTGAGCACTC GAG                                     393
```

(2) INFORMATION FOR SEQ ID NO:1068:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 290 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1068:

```
GAATTCGGCC TTCATGGCCT AAGGTAATGT GTCAGTGGAT GGAAAAGTTT AGAAAAGATC      60
TGTGTAGGTT CTGGAGCAAC GTTTTCCCAG TATTCTTTCA GTTTTGAAC ATCATGGTGG      120
TTGGAATTAC AGGAGCAGCT GTGGTAATAA CCATCTTAAA GGTGTTTTTC CCAGTTTCTG      180
AATACAAAGG AATTCTTCAG TTGGATAAAG TGGACGTCAT ACCTGTGACA GCTATCAACT      240
TATATCCAGA TGGTCCAGAG AAAAGAGCTG AAAACCTTGA TACTCTCGAG                290
```

(2) INFORMATION FOR SEQ ID NO:1069:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 319 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1069:

```
GAATTCGGCC TTCATGGCCT ACTCGACTCA TATTTTATC ATACATTTC AAGTCAGTTG      60
CTGATGTAA TCCCATTTCA ATGTGGGGCA GACTCTCGGG GTAATTTCAA AAAGATGTCT      120
CAAACATGTT TGTGTGTGTG TGTGTGTGTG TGTGTGTGTG TGTGTGTGTG TGTGTGTGTG      180
TGTGGAGACA GGGTCTCACT CTATTGCCCA GGCTGGAGTG CAGTGGTGCC ATCATGGCTC      240
ACTGCAGTCT CGACCTCCCA GACTTAAGCA ATCCTTCCCA AATAGCTGGG ACTCCAGGGG      300
CACCCCACTA CAACTCGAG                                     319
```

(2) INFORMATION FOR SEQ ID NO:1070:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 392 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1070:

```

GAATTCGGCC TTCATGGCCT ACTTCTAAAT GGCAAACAGT TGTCTTGAAG GCACTGTCTT      60
TTTCTACCTA GATGTTGGGT GGAAAAAAGC AAAAAAAGC TGCCTTTTAT ATAGAAGTTC      120
TTGGGAATAT TTCTCATATA GTGAGATGAA CAGAATGCAA AAGTTTCTT CCTGCAGGAT      180
CTCCCAAAT CCTTCTTGGC TTGAATTTT CTCTCACTT TTTCTTTTGA AAAGCTTTGT      240
TCCTTTTGCA CCTTGGAAAA ATAAGTCTTG TTGTCTCTGA CAGCAGAGTG CAAGCATCTA      300
TTGCATCAAA ATTCCCAAGT GGAATAGAAA ACCAATGGTC CTTTTCTGAA TTTCGTTAGC      360
AGTAGCAACA AACATTTTCAT TATAACCTCG AG                                     392

```

(2) INFORMATION FOR SEQ ID NO:1071:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 421 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1071:

```

GAATTCGGCC TTCATGGCCT ACACAATGGG AATCCAAGGA GGGTCTGTCC TGTTCCGGCT      60
GCTGCTCGTC CTGGCTGTCT TCTGCCATTC AGGTCATAGC CTGCAGTGCT ACAACTGTCC      120
TAACCCAACT GCTGACTGCA AAACAGCCGT CAATTGTTCA TCTGATTTTG ATGCGTGTCT      180
CATTACCAA GCTGGGTTAC AAGTGATATA CAAGTGTTGG AAGTTTGAGC ATTGCAATTT      240
CAACGACGTC ACAACCCGCT TGAGGGAAAA TGAGCTAACG TACTACTGCT GCAAGAAGGA      300
CCTGTGTAAC TTTAACGAAC AGCTTGAAAA TGGTGGGACA TCCTTATCAG AGAAAACAGT      360
TCTTCTGCTG GTGACTCCAT TTCTGGCAGC AGCCTGGAGC CTTCATCCCT ATACGCTCGA      420
G                                     421

```

(2) INFORMATION FOR SEQ ID NO:1072:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 335 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1072:

```

GAATTCGGCC TTCATGGCCT AATCGGTCAC TGATAGTATG TATTTCTTTA GTAAGAATGT      60
GTTAAATAA CAATGATCTT TTAATAAGAT GATGCAGTTC TGTATTTATT GTGCTGTGTC      120
TGGTCCTAAG TGGAGCCAAT TAAACAAGTT TCATATGTAT TTTCCAGTG TTGAATCTCA      180
CACACTGTAC TTTGAAATTT TCCTTCCATC CTGAATAACG AATAGAAGAG GCCATATATA      240
TTGCCTCCTT ATCCTTGAGA TTTCACTACC TTTATGTTAA AAGTTGTGTA TAATTGTTAA      300
AATCTGTGAA AGAATAAAAA GTGGATCCCC TCGAG                                     335

```

(2) INFORMATION FOR SEQ ID NO:1073:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 362 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1073:

```
GAATTCGGCC TTCATGGCCT AAAAAATAG GCACAGTTTC AGATGCTTCA GCATATGAGG      60
CATGGATACT TCAATCATTT GCAAAGGGTT CTGCTCAGTA GACTGAATGG AAAAGATGGT      120
CATTGCTCTT TAATGTAATT TTGCAGCTCT CATCAAAGAA AATATCTCCA TGAAATTAT      180
TGGTAACTGT TTATCTTTGA TCAGTGCAAA CTGAAGTCAA ATATACAAGG TAAACACACA      240
TAAAGATAAG TTCACACATT TCTGTGAATT TTCTAAATGT ACACACTTCT GCAAATTCTC      300
TAAATTCACA AATAACAAAT TTGCATGCAT GCAAGCATAT GTGCACATGT GCACACCTCG      360
AG
```

(2) INFORMATION FOR SEQ ID NO:1074:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 612 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1074:

```
GAATTCGGCC TTCATGGCCT ACCCAGGTGA TCAATGTTTT CAATGCGATC AGTAATAACC      60
ATGTGCTCAT GAATCAGATA GGACTGAGGC AAATAGGTTT CAGCCTTGAT GTTAATAAGT      120
AACTCCAGTA GGTTCCTGGG TGGCATAACA ATGGAAGTGT TCAGAGGGAT CACATAGCAC      180
TTATCCAGGT TAAGATCTAA ATAGGCTGTA AGTTTCTTGT TAAAGTCATG AACAATGTTG      240
GCAGGATCAC TATCTGCAAA CTCTGGGACA GGCACACTGA TAAATTCAAC TTCTCTTCTT      300
CAAAGATTTT AATATTTTCT TCAATTGTCT GGTAGAGAGC AGCTGGGGCA TCTGCAGAGG      360
GCTCATTTAA GATGACATCA TCCTTGATGT ACTTTATTCC ACAGTAGTAC ACGTCATCTG      420
GTTGAAGTGC AAAATATTTG TACAAGTATG CTCCTCCTAG AATAACACCT GCAAGCATAA      480
ATGCTAGTCC AAAGCACATG CACCACCACC ACCCGGCTAA TTTTGTACT TTTAGTAGAG      540
ATGAGATTTT ACCCTGTTGG CCAAGATGGT CTTGAACCTC TGACCTCAAG TGATCCGCCC      600
ACACCACTCG AG
```

(2) INFORMATION FOR SEQ ID NO:1075:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 252 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1075:

```
GAATTCGGCC TTCATGGCCT AAGTTTGTGG TCCTCTGAGA ATTCTCTGAA GGAGGAAATG      60
GGTTGACCTA TTTGGTTGCT ATGAAGTAAA AACAATCTTG TTTTCATTTT TTAGTGAACA      120
TCTGGGTGTC ATTTATTATT TCACATTCTG GAGATTCTGT AAAACCACAA TTTGATAATA      180
TGAGGGTTCA TCAAAGCGGT AATTATTGAG CTATTTTAT AGTTGATTCA AGAATTAGGG      240
TGGCGACTCG AG
```

(2) INFORMATION FOR SEQ ID NO:1076:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 151 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1076:

```
GAATTCTAGA CCTGCCTCGA GTGTGATACC AGCAGCTATG AAGCAAACCTG TATTAACCAA    60
GTCCTTTATT TTCTGTGTTT TGATGCATGA CTTTCATGGC CTTGTCAACC CTAGAGACCC    120
TGCCCTCCCC ATAGCTAGCG AACGTCTCGA G                                151
```

(2) INFORMATION FOR SEQ ID NO:1077:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 542 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1077:

```
GAATTCGGCC TTCATGGCCT AGGAAGTAGT CTAAAAAATT AACAGTTATG GTTTTAATAG    60
GATCTGAAAG ACAATCTTTA AAGAAATGGG AGAAATTGGG GGTATCAGTG AACCTATACC    120
AACCTCTCTT TGTACATAAA TATGGTGATG TAGCTAGATA TAAAAATCAG TGTCTTACTG    180
GCACCATTTA CAGTTTAGAA AACAATCTTT TTCTTAAAAA TGCCCATCTG ATTTCTATTT    240
TTAGGAGCTA CTTGGATTGG TATGTATTTT TTCTACGTGA AAATATATGT ACTCTTCACT    300
TTTGTTCAG TACTATAATT GCTCATGCAC TCTTCTCCC CTTTGAGAAC ATTCAAGTGAA    360
ATACAACTTC ATCAAAGATT TGCTCAAAGG AGAAGAATCG CATGAGTGTG AAAAGTAGAT    420
GCTCGTAGCC AGAACAGAAA AGGTTACACA TGATCATGGC ACAGAAGATA GGAGGTTTGA    480
CTTGTGGGCG CATAATGTTT ATTATCCTTT TTGAAATAAC AGGGACCAGC AGCACTCTCG    540
AG                                542
```

(2) INFORMATION FOR SEQ ID NO:1078:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 574 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1078:

```
GAATTCGGCC TTCATGGCCT AGGTTGCCAT TACTTGTGAT GCCTCTGAAT GTGGAGGCTG    60
ACTCTCCCGT CTCTCTGTCC CTCTACCCC ACGGGGCCGC AGCAAAGGCC ATCTGGGGCC    120
TTCGACTGGG CCATGTCTTC AGGAAGATTC CTGAAGAGGA GGGCCCGAAA TACCTGCCTT    180
TATAGGTTC CAGAGTGCCC TAGAACATTC TTAGATACAT ATTTTTTAAA CAAGTAGGAC    240
TCCACCTTAT TTTCTCCAAT AGTCCCCAAG CAGTACAGGT CACTTGAAGA CATAAACATT    300
CTTCTTGGTT GAGGGATCCA CGCCCTTGTT TCAGAAATGA CACCACAGAA GGCTGTGAGC    360
TCCAGGAGCA TCGGTTGGGA TGTCCGGATG ACCGGGGTTT AAAGGTTTTC CTATTCTCGA    420
TAAAGCCTGT GCGCACTGTA CGGGGAGTGG GGGTGAAGCG TGTTCTCTAC ATAGGCAACA    480
```

CAGCCGCCTA AGTCACAAAG TCAGTGGTCG GCCGCTTCGA CCAACATGTG GTGAGCATTC	540
CACGGGCGCA TGAAGTCTGG GTGCTGTGCT CGAG	574

(2) INFORMATION FOR SEQ ID NO:1079:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 284 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1079:

GAATTCGGCC TTCATGGCCT AGGGGCCAGG CGGCCGCGC GAGTCTGGTA TCCTGAGCTT	60
CGTGAGTTGA GCGCTGCTGC TCCGCGGTGG AGTCACCGCA CCGCTCCCGG GATCATGGTG	120
TTCTACTTCA CCAGCAGCAG CGTTAATTCA TCTGCCTACA CTATTTACAT GGGAAAAGAT	180
AAATATGAAA ATGAAGATCT GATCAAGCAT GGCTGGCCTG AAGATATCTG GGAGAGAATA	240
TAGAAGACAT CCCAAAGGAA GTGCTGATGG ACTGTGCGCT CGAG	284

(2) INFORMATION FOR SEQ ID NO:1080:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 359 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1080:

GTGAACACCA GAAATACCC TGCAATTCAG CAGAACCAAA ATCCATACCT GCCCTTCAA	60
TGGAAACACA GAAACTTGGT TCAGTTTTGT CTCCAGAATC GCCAAAACCT ACTCCTCTTA	120
CTCCCTTGGA GCCTCAGAAA CCTGGCTCTG TTGTTTCTCA TGAGCTACAG ACACCTCTTC	180
CTTNTCCTGA GCCTTCAAAA CCTGCCTCTG TTTCTTCTCC TGAACCTCCA AAATCAGTCC	240
CTGTTTGTGA GTCTCAGAAA CTTGCCCCCTG TTCCTTCTCC AGAACCACAG AAACCTGCCC	300
ATGTATCTCC TGAGTCAGTA AAGNTACTA TTNGTAATCC CAAACCCAG ATTCTCGAG	359

(2) INFORMATION FOR SEQ ID NO:1081:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 474 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1081:

GCCCCGCAGA TGGGAAACGC ATCATATTCT GATTCTTACC TGGAAGGAAT TTTGTTGAAA	60
GGGGTTTTCA CCTGTGAGCC TTGGTCTGTC TCGGTAGGGT GGTCAACTTC AGTGGACTGT	120
GGTTGGTTTC AGAGCGCCTG GCTGAGGAGT TCCACTGAGG GGAGCACTGG AGCAGCCCTT	180
TGGCAGAGGC TGAGGAGGGA GATGGACCAG CCCACGCTG GCACCTGGCT CCATGGCATA	240
AGGAAAGGGA GATGCTGGCC TCTGTCTCC TGCTGTCTT TCCTGTTTCT GTTTGCGTTT	300
GACTTAGTAG CAACCGACAG AGTGGCAAGG GATTTGGTCT TCAGCAGTAG ACATCCTTCC	360
ACCCCTGCCC TCAGCCAAGT CTCTTGCTGC CATGCCAATG CTATGTCCAC CCTTGCCCCCT	420

CGGCCCAAGA GTGTCCAGCG GTGGCCCACT TTTCTCTCCC ACCACAACCT CGAG

474

(2) INFORMATION FOR SEQ ID NO:1082:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 505 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1082:

```

GAATTCGGCC TTCATGGCCT AATGTGTGTG GCACAAAGAA GAAAGTGGAC TCTACACTGT      60
GTTAGTTAGG AAAACCAGAA ATTGGGCCAA ATTGCCTGTT TAGTGGGAGA GATANCTTTT      120
GAGAGCTGTG ATCCCGCTGG TGTGGCTGGC TCTGGGCAGA TATTTGTATC TGAAATGACT      180
CATGCTGTGG GACCCCTCCT GAGATCTAAC ACTTACAGTG GTTTGATCAG AAATTGCACC      240
ATGCTTGCCA AGCAACTTTT GGACTAAAAG TTGCTGCCCA CGTATATCAG GGAAGAATA      300
TATATATATA TATATATAGT ACCTATCTTA GCATCTGATT TGTATGACCA TTA CTTC AAT      360
GTAAAAAAT AAATTGGCTT TCCAGCTTAA ACTTCAATTT CTTGTATATT ATATGATCAT      420
GAGACAACCT CCCTGGGCTG ATCAACAGCA GGACGCTAAA AAGATTGAGT ATCTGAGTCA      480
GGAAGGTAGA GGGCCAAACC TCGAG                                         505

```

(2) INFORMATION FOR SEQ ID NO:1083:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 481 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1083:

```

GAATTCGGCC TTCATGGCCT ACTACTATTC AGAGACAACA GTGACACGGA CCTATGTGAT      60
GCTGGCCTTA GTGTGGGGAG GTGCCCTGGG CCTGGGGCTG CTGCCTGTGC TGGCCTGGAA      120
CTGCCTGGAT GGCCTGACCA CATGTGGCGT GGTATTATCCA CTCTCCAAGA ACCATCTGGT      180
AGTTCTGGCC ATTGCCTTCT TCATGGTGTG TGGCATCATG CTGCAGCTCT ACGCCCAAAT      240
CTGCCGCATC GTCTGCCGCC ATGCCAGCA GATTGCCCTT CAGCGGCACC TGCTGCCTGC      300
CTCCCACTAT GTGGCCACCC GCAAGGGCAT TGCCCACTG GCCGTGGTGC TTGGAGCCTT      360
TGCCGCCTGC TGGTTGCCCT TCACTGTCTA CTGCCCTGCT GGTGATGCCC ACTCTCCACC      420
TCTCTACACC TATCTTACCT TGCTCCCTGC CACCTACAAC TCCATGATCA ACCCTCTCGA      480
G                                         481

```

(2) INFORMATION FOR SEQ ID NO:1084:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 389 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1084:

```

GAATTCGGCC TTCATGGCCT ACCATTTTTA TTAACCCAA ATCCATGGAA AATATCATGG      60

```

AAATGAATAA	GCGTCTAACA	GAAGAACAAG	CCAGAAAAAC	ATTTGAGAGA	GCCATGAAAC	120
TGGAACAGGA	GTTTACTGAA	CATTTTCACAG	CTATTGTACA	GGGGGATACG	CTGGAAGACA	180
TTTACAACCA	AGTGAAACAG	ATCATAGAAG	AACAATCTGG	TTCTTACATC	TGGGTTCGG	240
CAAAAGAAAA	GCTATGAAAA	CTCATGTTTC	TCTGTTTCTC	TTTTCCACAA	TTCCATTTTC	300
TTTGGCATCT	CTTTGCCCTT	TCCTCTGGAG	TCTTTCTTGA	GTACTGATTT	CATGTTGAAT	360
TGTATCCAC	ACATCATGGT	CATCTCGAG				389

(2) INFORMATION FOR SEQ ID NO:1085:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 350 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1085:

GCGATTGAAT	TCTAGACCTG	CCTCGAGACC	GCCTACGAAT	GGAAATCCAT	AAGAATGAGG	60
CTTGGCTCTC	TGAAGTCGAA	GGCAAAACAG	GTGGGAGAGG	AGACAGAAGA	CATAGCAGTG	120
ACATAAATCA	TCTTGTAACA	CAGGGACGAG	AAAGTCCTGA	GGGAAGTTAC	ACTGATGATG	180
CAAACCAGGA	AGTCCGTGGG	CCACCCACAG	AGCATGGTCA	CCACAATGAG	TTTGATGATG	240
AATTTGAGGA	TGATGATCCC	TTGCCTGCTA	TTGGACACTG	CAAAGCTATC	TACCCTTTTG	300
ATGGACATAA	TGAAGGTACT	CTAGCAATGA	AAGAAGGTGA	AGTACTCGAG		350

(2) INFORMATION FOR SEQ ID NO:1086:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 276 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1086:

GCTCCACCAG	CTACTGAGAA	AATGGCCTGT	AAAGATCCAG	AAAAACCCAT	GGAGGCCTGT	60
GCCTCAGCAC	ATGTGCAACC	CAAGCCTGCC	CCTGAAGCCA	GTAGCCTAGA	GGAGCCCAT	120
AGCCACAGAA	CAGGGGAGAA	GGTAGTAGCA	GGAGAGGTAA	ACCCACCCAA	TGGCCCTGTG	180
GGGGACCCAC	TGAGCCTCTT	GTTTGGGGAT	GTGACATCCC	TGAAAAGCTT	TGATTCATTG	240
ACAGGTTGTG	GTGACATAAT	AGCAGAACAA	CTCGAG			276

(2) INFORMATION FOR SEQ ID NO:1087:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 295 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1087:

GCAGAGACTT	AAAGGGTTAA	TAAAAATTGT	AAAGCCAGCA	GAGATTCCAG	AACTAAAAAA	60
GACTGAAACT	CAGACTACAG	GTGCAGAAAA	CAAAGCTAAA	AAGCTTACAT	TGCCTCTATT	120
TGGTGCCATG	AAAGGAGGAA	GCAAATTCAA	ATTAAAAACT	GGAACAGTAG	GGAAGTTACC	180

CCCCAAGCGT CCAGAACTCC CTCCAACCTCT AATGAGAATG AAAGATGAGC CTGAAGTAGA	240
AGAGGAGGAG GAAGAGGAAG AGGAAGAAGA GAAAGAAAAG GAGGAGCAGC TCGAG	295

(2) INFORMATION FOR SEQ ID NO:1088:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 339 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1088:

GAAATGAGGG TCCCTGAAGA AGCTCTTAAG CATGAGAAGT TTACCATTC A GCTTCAGTTG	60
TCCCAAAAAT CTTCAGAATC AGAATTATCC AAATCTGCAA GTGCCAAAAG CATAGATTCA	120
AAGGTAGCAG ACGCTGCTAC TGAAGTGCAG CACAAAATA CTGAAGCACT GAAATCCGAG	180
GAAAAAGCCA TGGATATTTC TGCTATGCCC CGTGGTACTC CATTATATGG GCAGCCGTCA	240
TGGTGGGGGG ATGATGAGGT GGATGAAAAA AGAGCTTTCA AGACAAATGG CAAACCTGAA	300
GAAAAAACC ATGAAGCTGG AACATCAGGG TGCCTCGAG	339

(2) INFORMATION FOR SEQ ID NO:1089:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 433 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1089:

GAATTCGGCC TTCATGGCCT ACTCAAGAAT ACAGGTCTTA CTCGTATAGT CTTGAACAA	60
TAGGCTGTGT GACTAAAAGA GAGACACAAT CAATTGCTTC CCAGTCAAGA AGCCAGAAAA	120
GCTTCAAAAC CTTTCCCCCT CCCTACTCCT TGCCACCGCA CCTAAAAAAA AGAGAAATCT	180
TTTAAGTGTT TAAAACTGT AGGAGTCTTA TGAAGAAGCA GCTTTATGTG TATTCTTTAT	240
GGCATAATAT TAATGCATGA AAATCTGTTG CTTTTTTAAA AATTGTGGCA AAATATACAT	300
AACATAAAAT TTATCATTTT AGCTATTTT AATATACAAT TCACTAGCAT TAAGTATTAA	360
TACATTACA GCACCATTCG AACCATGGCC ACCATCATCT CCAGAACTG ATCTTCTTCA	420
ACGCCCACTC GAG	433

(2) INFORMATION FOR SEQ ID NO:1090:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 319 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1090:

GACTGGGTCC ATGGGAGCAA GATTAGTGGC TGCTAAACTT GAACCGAAAA GCTTCAAACA	60
TACCCATATA GATAAACCA GACTGCTCAGG GCCCCCCATG GACATAAGTA ACAAGGCTTC	120
TGGGGAGATA AAAATTGCCT ATACTTACTC TGTTAGCTTC GAGGAAGATG ATAAGATCAG	180
ATGGGCGTCT AGATGGGACT ATATTCTGGA GTCTATGCCT CATACCCACA TTCAGTGGTT	240

TAGCATTATG AATTCCTGG TCATTGTTCT CTCTTATCT GGAATGGTAG CTATGATTAT 300
GTTACGGACA CCACTCGAG 319

(2) INFORMATION FOR SEQ ID NO:1091:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 328 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1091:

GTGCAAAATG AGCACATCAT TGAAACATT GTTGCTGTCA CCAAAGGACT TTCAGAAAAA 60
 TTGCCAGAGA AGTGGGAGAG CGTGAACTC CTGTTTGTGA AAAGTGAAG ATCGGCTGCA 120
 CTCTCCATCT TTTCTCGTT TGTGAGCAAT TGGGATGAAG CCACCAAAAG ATCTTTGCTT 180
 AATAAGAAGA AAAAGAGGC AAGGAGAAAA CGAAGAGAAA GAAATTTTGA AAAACAAAAG 240
 GAGAGGAAGA AGAAGAGGCA GCAGGCTAGG AAGACTGCAT CAGTTCTTAG TAAAGATGAT 300
 GTGGCACCTG AAAGCGGTGA TACTCGAG 328

(2) INFORMATION FOR SEQ ID NO:1092:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 109 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1092:

GATCATGAAG TCCATCATCC CAGTGGTCAT GGCTGGCATC ATCGCCATCT ACGGCCTGGT 60
 GGTGGCAGTC CTCATCGCCA ACTCCCTGAA TGACGACATC AACCTCGAG 109

(2) INFORMATION FOR SEQ ID NO:1093:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 388 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1093:

GAATTCGGCC TTCATGGCCT ACTGGAATTC ATAAGTCTAA ATGTTTCTAT GAGTCTAAAA 60
 TTAAAGTGT AGCAGGGCTG GGCTTCCTTT GGAAGCTCTA GAGAATGATC TGTTTTCATA 120
 CCTTTTCCAG CTGTATGAG CTGACTACAT TCCTTAGCTC ATGGCCCTGC TGCCACAGC 180
 TTCAAATGAG ACAACACCAA GTTGAGTCCT CTTAGATCA CATCAATTTA AATCTCCTAC 240
 TATTCATATT TCCTGTGAC TCTCCTATGC ATCCTTCCTT CTCTTCAAAG GATCTTTGTG 300
 ATTATACTGG GCCCTCTGAA GAATCCATGA TAATCTTATC TCAAGGTGCT TAAGTTAATC 360
 ACATTTACAA GATCTCCTTT TCCTCGAG 388

(2) INFORMATION FOR SEQ ID NO:1094:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 461 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1094:

```

GAATTCGGCC TTCATGGCCT AGGTGGCACA TGCCTGTGGT CCCAGTTACT CGGGAGGCTG      60
AGGTGGGAGG ATTGCTTGGG CCCGGGAGGT CAAGGCTGCA GTGAGCCGTG ATCTTGCCGC      120
TGTAATCCAG CCTGGTGATA GCGAGACCCT GTCTCAAAAA AATGCTTTTA GGGAAATTAA      180
TATGTCTCTG GCCTGTTTAA TCATTGAAAA CATTTTAATA TTTTCAGAGC CATAGAGGGC      240
AGTGA AAAAC AGAGTAGCAG AATTGATTAT ACCAGTACTA TTTATCCAAT GGCTAATACA      300
AATAAGACTC TCAGGGATAA TTCACACGTG CTTCCAAGAA CACTAGATGG CACCAATTAT      360
TTAGGATTCA GACTACCTCA GGAACAGCT GTCTTCATTG AACAAATATT TATTAAATAA      420
TGAACAAAAC AAAAATATCT GTCATTGTGG AGCAGCTCGA G                                461

```

(2) INFORMATION FOR SEQ ID NO:1095:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 317 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1095:

```

GAATTCGGCC TTCATGGCCT AAACCTATGC AGATGCCTGT GATGAGTTCC TGGATCCCAT      60
TATGAGCACA CTGATGTGTG ACCCTGTGGT GCTGCCATCT TCCAGAGTCA CTGTGGATAG      120
ATCCACCATT GCAAGACATT TGCTCAGTGA CCAACAGAT CCCTTTAACC GTAGTCCCTC      180
CACCATGGAC CAGATCCGGC CAAACACAGA ACTAAAAGAA AAAATCCAAC GGTGGCTTGC      240
AGAGAGGAAA CAACAAAAGG AGCAACTTGA ATAGATACTG TGAAC TAACC AAACCAAAAC      300
CAACCCAGAG TCTCGAG                                317

```

(2) INFORMATION FOR SEQ ID NO:1096:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 360 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1096:

```

GCTGCAGCCA ACGCGCAGCT CCACTGGAAG AGGATGGAGA ACCTCAAGGA GGAGGAAGAT      60
GACGACTCCT CCACAGCCTC AGACAGCGAT GTTCTCATCC GGGACAAC TA CGAGCGGGCA      120
GAGAAGCGGC CCATCCTGTC TGTGCAGAGA CGTGGATCTC CCAACCCGTT TGAAATCACA      180
GACCGGGTGG AAATGGGACA AATGGCCTCC ATGTTCTTCA ATAAAGTGGG GGTCAACTTG      240
TTCTATTCTT GCATCATCGT TTACCTGTAT GGAGACCTCG CCATCTATGC TGCTGCCGTG      300
CCCTTCTCCC TCATGCAGGT GACCTGCAGC GCCACTGGCA ATGACTCCTG GCGGCTCGAG      360

```

(2) INFORMATION FOR SEQ ID NO:1097:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 311 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1097:

```

GAATTCGGCC TTCATGGCCT AGTGAGCCAC CGCACGGGGC CTAACGATGA TGAGAATTTG      60
ATGTGACATC TGCAGGATCC CCAGCTAGTC AGCAGCATCT AGAGGGCTAG AACTCTGGCC      120
AGCTGACTGG GCCTTTTGCT AACTGTITTC TGTCCCCTCT GTGCCGGGGT GTCACTGAGC      180
TTTGCGGGAC AGGCTGGTCT GTCGTGCCCT CAGCTCAGGG AATGTGGCTC CCGAGCATAG      240
GGCTGGACTG AGAGGCGTTA GGTGAGCCAG AGAAGGCCTC AGACACAGGG CTTAGAGAGG      300
GCTCCCTCGA G                                     311

```

(2) INFORMATION FOR SEQ ID NO:1098:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 436 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1098:

```

GAATTCGGCC TTCATGGCCT ACCTGCAGCT CTACAATATA TTTTCAAAC TCTTGATATT      60
GAGAACAAAG GATACCTGAA TGTCTTTTCA CTTAATTATT TCTTTAGGGC CATAACAGGAA      120
CTAATGAAAA TCCATGGACA AGATCCTGTT TCATTTCAAG ATGTCAAGGA TGAAATCTTT      180
GACATGGTAA AACCAAAGGA TCCTTTGAAA ATCTCTCTTC AGGATTTAAT CAACAGTAAT      240
CAAGGAGACA CAGTAACCAC CATTCTAATC GATTTGAATG GCTTCTGGAC TTACGAGAAC      300
AGAGAGGCTC TTGTTGCAAA TGACAGTGAA AACTCTGCAG ACCTTGATGA TACATGATCT      360
CTGAAAGACT AGACTGTCTT ATATTATGAG ATACTTGAAT GCTGCATGTA AAGCCTTTAA      420
AGCAAAAAAC CTCGAG                                     436

```

(2) INFORMATION FOR SEQ ID NO:1099:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 291 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1099:

```

GAGAAGATGC AAGTGGACCA GGAGGAACCA CATGTTGAAG AGCAACAGCA GCAGACACCA      60
GCAGAAAATA AGGCAGAGTC TGAAGAAATG GAGACCTCTC AAGCTGGATC CAAGGATAAA      120
AAGATGGACC TACCACCCCA AGCCAAGAAG GCAAAAGTGA AGACCAAGTAC TGTGGACCTG      180
CCAATCGAGA ATCAGCTATT ATGGCAGATA GACAGAGAGA TGCTCAACTT GTACATTGAA      240
AATGAGGGTA AGATGATCAT GCAGGATAAA CTGGAGAAGG AGCGGCTCGA G                                     291

```

(2) INFORMATION FOR SEQ ID NO:1100:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 101 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1100:

```
GAATTCGGCC TTCATGGCCT AGTCATTTTA TAGGTTAAAA AAAGGTCAAA TTGTGACAAAT    60
TTCATATGGT ACAATATAAA ATTATATTAA ATATACTCGA G                          101
```

(2) INFORMATION FOR SEQ ID NO:1101:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 492 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1101:

```
GAATTCGCCT TCATGGCCTA AGAAATACAT AGATCAAGTA AAATCCCAAC TACTGTAGCT    60
GGAATTTGTA AACTAAGTTT GTAAGACCTC TTTTATTTCC TATGGAGTTA TTCTTTAATT    120
TACAGTTTAT TCTGTAAGTT GGGAAAGTAA ATAGAGAAAA TAATAAATCT AGATGTTCTC    180
AGTGTCTTAT TCAGGAACCT TTTATCCCTC CTCCTAAGG AATTCCTACT GTGACTTTAA    240
AATAGAACTA AATTACTTGT GTGCATGTAT ATGTCTGTAT TTTTACACA CATGCAAAAA    300
TATACATTGG GGGCACGTGT GTGAGAGATA TGAATGTGTG CTTATATAAA AATAGATAAA    360
GGTAACCGAA TGTATTGTAG AAACATGATT TATTAGTTG AGGGTATTGG AGTTACTTTC    420
TCATTGTCTC TGTGTATATA ATACACCAAA TTAATCATT TGTATCTTA TGTAAAAGG    480
CTAGCTCTCG AG                          492
```

(2) INFORMATION FOR SEQ ID NO:1102:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 343 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1102:

```
GAATTCGGCC TTCATGGCCT AGGCCTGCGT TAATACTCTT AATTATAGAA ACAATCCTTA    60
ATTAATAAAC AAGTCCTTTC ATTGGAAAAA GAACTAATAC ATTTTGTCTT CTCAGTCAAA    120
ATTCTGTTTT TGTGGTTAGA GTAATAAAAT GGTAACACCT AGGGTCTGCC ACGATCATGG    180
TTCTCACTCT GGATTCATTC CCTACCACAT CCTTATTTCC CTCCTCTTCC CCATTCCTTC    240
ACTCACCTTC CTCCTTTCCT TCCCTCACTC ACCCTCCTCT TCCCCATTCC CTCACTCACC    300
CTCCTCCTTT CCTTCCCTCA CTCACCCTCC CCCTTTCCTC GAG                          343
```

(2) INFORMATION FOR SEQ ID NO:1103:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 282 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1103:

```
GAATTCGGCC TTCATGGCCT AACCGGGCAA AAAAAAAAAA AAATCTTAAA AGCACTAACT    60
TACTATCAAA TCTCAAGAAA CAGAAGCAAT TTCAAAAAAT CAATACTATC CTTTGGTCA    120
GTAACACTTT CTTCAATTCCT AATGTATGAG AACAATAAGG ACATTTTAGC TCCTTTACTC    180
TTCCTTCATT TAGTGACTTC CACATTTCTC TCACCATTTT TCCAGCCTCT GGGTGTGGTT    240
CTGATGAACC TTAACTTGA AAGGCACAGG CCAGAACTCG AG                                282
```

(2) INFORMATION FOR SEQ ID NO:1104:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 205 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1104:

```
GCGATTGAAT TCTAGACCTG TCTTACGCTT CCCTTCCTAA GCCTTTGTCT ACTCTGCTTT    60
GTCTGCTTTT ATGCTTCTCT CTCCTTTGTC TGAAGTGGTC TCTGTCCTCG TCCATGCTTC    120
AAGTCCTAAT TCAAATGCCA CTGTCTTTAT GAAGGGCTCC CTGATTGTTC CAACCAAAAT    180
AAGCTTTTAT TCCTTTGAAC TCGAG                                205
```

(2) INFORMATION FOR SEQ ID NO:1105:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 249 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1105:

```
GAATTCGGAC TTCATGGCCT ACGTTTTTAT TACAAATATT ACATTAACT AAAGCTCACA    60
ACTGTFACTA TGCATCAGGA ATTAACAGTC ATTTCTCATT TGTGTTATTC TCCTATTGA    120
TCACATATAG TGAATATCTC TTTATGGGTT AAATATCAGT TTCTTGGCCA GAATTCAAGA    180
TCTGCCCCCTA ACNAATCCTA CTTCTCCCAG TACCCTTACA GCACTCCTAC CCTACTAGTA    240
ACCTTCGAG                                249
```

(2) INFORMATION FOR SEQ ID NO:1106:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 237 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1106:

AATTCTAGAC	CTGCCTCGAG	ATTGTCGACC	AGTTTAATTC	TTTAAAACTC	AGTTTAGCTG	60
TCCTTTTCTT	TGGAACACTT	TCCCTAATCT	TCCCCACCAC	CTGTTTCATCA	ACATATATAG	120
AAGCACATTT	ACTCTCTCAT	TCTCTCTCTT	TCTCTCTCCA	AGTCTATGTT	AGGTGTTTTA	180
GCGTTTATCA	TAGGTTTATG	TTACTTATC	TCCCCACTAG	TCTATGAAAT	CCTCGAG	237

(2) INFORMATION FOR SEQ ID NO:1107:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 313 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1107:

GATTTATTAT	AAAGCTGCAA	AGAAGCTGTT	GCACTCAGGA	ATGAAAATTC	TTAGCCAGGA	60
AAGAATTCAG	AGCCTGAAGC	AGAGCATAGA	CTTCATGGCT	GACTTGCAGA	AAACTCGAAA	120
GCAGAAAGAT	GGAACAGACA	CCTCACAGAG	TGGGGAGGAC	GGAGGCTGCT	GGCAGAGAGA	180
GAGAGAGGAC	TCTGGAGATG	CCGAAGCACA	CGCCTTCAAG	AGTCCCAGCA	AAGAAAATAA	240
AAAGAAAGAC	AAAGATATGC	TTGAAGATAA	GTTTAAAAGC	AATAATTTAG	AGAGAGAGCA	300
GGAGAGCCTC	GAG					313

(2) INFORMATION FOR SEQ ID NO:1108:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 467 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1108:

GCGAGAACAC	CATCACCATG	ACAACCAGTC	ACCAGCCTCA	GGACAGATAC	AAAGCTGTCT	60
GGCTTATCTT	CTTCATGCTG	GGTCTGGGAA	CGCTGCTCCC	GTGGAATTTT	TTCATGACGG	120
CCACTCAGTA	TTTCACAAAC	CGCCTGGACA	TGTCCCAGAA	TGTGTCCTTG	GTCACTGCTG	180
AACTGAGCAA	GGACGCCCAG	GCGTCAGCCG	CCCCTGCAGC	ACCCTTGCCT	GAGCGGAAT	240
CTCTCAGTGC	CATCTTCAAC	AATGTCATGA	CCCTATGTGC	CATGCTGCCC	CTGCTGTTAT	300
TCACCTACCT	CAACTCCTTC	CTGCATCAGA	GGATCCCCCA	GTCCGTACGG	ATCCTGGGCA	360
GCCTGGTGGC	CATCCTGCTG	GTGTTTCTGA	TCACTGCCAT	CCTGGTGAAG	GTGCAGCTGG	420
ATGCTCTGCC	CTTCTTTGTC	ATCACCATGA	TCAAGATCGC	GCTCGAG		467

(2) INFORMATION FOR SEQ ID NO:1109:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 74 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1109:

GAATTGCGGA	AACGGTCGTT	CCACTCGCTC	CAATGTGGCC	CCCAGGCACC	TACCTGATAG	60
CCATATGGGT	CGAG					74

(2) INFORMATION FOR SEQ ID NO:1110:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 427 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1110:

```

GAATTCGGCC TTCATGGCCT AGGAATTAG GAACCAAGAT ACTGGGGTGT TATTGTTTCT      60
AAGCTCTTTC AGTGAACAGA TCTAGGAAAT ACATGTGTGT CCTAATCCAT GAATACACAC      120
TAAAATATAA TTATTTCTGT ATCTATGTCA AGCTAAACCT AAGTTCACAT TGAGGTTTCT      180
GACTTTAATA CAGTCCCACA AGGTTTCGTT TAGCTTTCCT TCCTTGCATA CCTTTGACTT      240
TCCTCTCCAG CTGTGGGAAA CTTGGCTCTC TCCATCCACC ACCCCTTCAC TATTGTTTTA      300
ACCCCTGTAC ATATATAAAG CAGCGTTGGA ACTGTCAACC TGTGTCCCAT GAGAAACTTT      360
ACCCACTAGA GTACAGCGTT TATGCAGTTC TTTTGTAGT TTTTATAGAT TATAGCCAAA      420
ACTCGAG                                           427

```

(2) INFORMATION FOR SEQ ID NO:1111:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 372 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1111:

```

GGTGAACCCG AATCACCGAT GGATGTGGAT AATTCTAAAA ATAGTTGTCA AGACTCAGAA      60
GCAGATGAGG AGACAAGTCC AGGTTTGTAT GAACAAGAAG ATGGTAGTTC CTCCCAAACA      120
GCAAATAAAC CTTCAAGGTT CCAAGCAAGA GACGCTGACA TTGAATTAG GAAACGGTAC      180
TCTACTAAGG GCGGTGAAGT TAGATTACAT TTCCAATTG AAGGAGGAGA GAGTCACACT      240
GGAATGAATG ATTTAAATGC TAAACTACCT GGAAATATTT CTAGCCTGAA TGTAGAATGC      300
AGAAATTCTA AGCAACATGG AAAAAAGGAT TCTAAAATCA CAGATCATTT CATGAGACAG      360
CCCAAAC TCG AG                                           372

```

(2) INFORMATION FOR SEQ ID NO:1112:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 108 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1112:

```

GAATTCTAGA CTGCCTCGA GCTATACCTG TATCCAGTCT TGATGCACAC CAGGCTGGGC      60
ACTTTCAGAA AACTACCTCT AACCTCCAGG GTTCCCTCAT CACTCGAG      108

```

(2) INFORMATION FOR SEQ ID NO:1113:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 382 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1113:

```
GAATTCGGCC TTCATGAAGA TTGAGAAGAA GGAGGAAAAA AAGCCTGAAG ACATTAAGAA    60
GGAAGAAAAA GACCAGGATG AGCTGAAACC CGGACCTACA AATCGGTCTA GAGTCACCAA    120
ATCAGGAAGC AGAGGAATGG AGCGGACGGT CGTGATGGAT AAATCGAAAG GAGAGCCCGT    180
CATTAGCGTG AAAACCACAA GCAGGTCCAA AGAGAGAAGC TCCAAGAGTC AGGATCGCAA    240
GTCAGAAAGC AAAGAAAAGA GAGACATCTT GTCGTTTGAT AAAATCAAAG AACAAAGGGA    300
GAGAGAGCGC CAGAGGCAGC GGGAACGGGA GATCCGCGAA ACGGAGAGGC GGCGGGAGCG    360
CGAGCAGCGG GAGCGTCTCG AG
```

(2) INFORMATION FOR SEQ ID NO:1114:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 253 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1114:

```
GAATTAGCAA AGGAAATCTC AGATTGCATT TCCAAAGATG GTTGCTAGCT GCTGCCGTTT    60
CCTTTGCTAT TTCTGTCGAA TTAGCCGGCA AAATCAGAAG GCCATGTTTG AGCATCTGAG    120
TTATCTTCTG GAGAATAGCA GTGTGGCCT AGCCTCCCCG TCGATGAGGG GATCCACCCC    180
GCTGGATGTG GCAGCTTCCT CTGTGATGGA CAACAATGAG TTAGCGCTGA GCTTAGAGGA    240
ACGAGACCTC GAG
```

(2) INFORMATION FOR SEQ ID NO:1115:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 76 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1115:

```
GAATTTTTTT TTTTTTAAA GAAAGAAAAC TAGGGCGATG CAATGTCCAG ACAGAAGCCG    60
GGGGCCGGGG CTCGAG
```

(2) INFORMATION FOR SEQ ID NO:1116:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 70 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1116:

GAATTCGGCC TTCATGACGA CCGCGTCCAC CTCGCAGGTG CGCCAGAACT ACCACCAGGA	60
CACCTCTGAG	70

(2) INFORMATION FOR SEQ ID NO:1117:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 526 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1117:

GAAATGAAA AGTTCTGTCT TTGATGAAGA CAAACTTTT GTAGCAGAAA CATTTGGAAAT	60
GGGTGAGGTT GTTGAAAAGG ATACAACAGA ACTCATGGAA AACTTTGAGG TAACCAAGCG	120
AGAGAAATTA GAGCTGTCAC AGAGACTGTC TGATCTTTCT GAACAATTGA AACAGAAACA	180
TGGTGAGATT AGTTTCTTAA ATGAAGAAGT TAAATCTTTA AAGCAAGAGA AAGAACAAGT	240
TTCATTGAGA TGTAGAGAGC TAGAAATCAT TATTAACCAC AACAGGGCAG AAAATGTACA	300
GTCATGTGAT ACTCAAGTAA GCTCTTTATT AGATGGAGTT GTGACTATGA CAAGCAGGGG	360
TGCTGAAGGA TCAGTTTCTA AAGTAAATAA AAGTTTGGT GAAGAATCAA AAATAATGGT	420
GGAAGATAAA GTTCTTTTGG AAAATATGAC TGTGGAGAA GAAAGTAAGC AAGAACAGTT	480
GATTTTGGAT CACTTACCAT CTGTAACAAA GGAATCTTCA CTCGAG	526

(2) INFORMATION FOR SEQ ID NO:1118:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 190 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1118:

CGATTGAATT CTAGACCTGC CTCGAGCCGA CCTACTCCAC AGCTGTCCTG ACTGTGTAAG	60
CGAGATGATG ATTAGTGATC AGACGAAAGG ATTCTGTGCA TTGGTAACCC TCTCAAAGTA	120
TTTGAAAAAC AGTTCAATTT TCATCTATTT CAGAAGCACG CCGTGGTGTC TATTGAGGCT	180
CACCTCTGAG	190

(2) INFORMATION FOR SEQ ID NO:1119:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 331 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1119:

GAATTCGGCC TTCATGGCCT ACCATCCTGC ACTCAACCAA TCATCTGATG CTGACTCAGA	60
AGCTCTGTTT GGAGTACCTA ATGATAAGAA TTTACTGTGG GCTTATGCTG TTATCGGTAC	120

TTACATGTTT	TTAGTTTCTG	TCATTTTTTT	TTGTCTGTTT	TTAAAGAATA	GCTCAAAGCA	180
AGAAAAAGCA	AGAGCATCTG	CTGAGACATT	TCGAAGAGCA	AAATATCACA	ACGCCCTTCT	240
TTGTCTCCTT	TTTCTGTTCT	TCTTTTTTTA	TGTTGGAGCT	GAGGTAACAT	ATGGCTCTTA	300
TGTTTTCTCA	TTTGCAACCA	CCCATCTCGA	G			331

(2) INFORMATION FOR SEQ ID NO:1120:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 352 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1120:

GAATTCGGCC	TTCATGGCCT	ACAGATTTGC	ATCTTTACAA	CCAGAAGCTC	AGGGAGAAGT	60
TGAAGGAGGA	GGAGAACACA	GTGGGTATGT	TCAGATTGCT	TTGGGTACC	CTTGATCCAG	120
CCACATTGTC	TACCCTAGAT	GGGTGCTCAT	GGTACTTCTT	GGTGGCATT	CAATAATAGG	180
TTGAGTTGTA	TACCGTCTGT	CTTTACACTA	CATTATGAAA	ATGAGATTAT	TAAATAAGAA	240
TTTTGATGTA	GCTGATAAGC	TAGTAGAATT	GGCACATGAT	CCCTTTTATA	CCCAGCCCTC	300
CTGTCTGGTG	TGCTTGAGGT	AATAATAACC	CCTTTTATAC	CCAAACCTCG	AG	352

(2) INFORMATION FOR SEQ ID NO:1121:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 484 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1121:

GAATTCGGCC	TTCATGGCCT	ACCAATCTCT	TTTACTGAGC	ACAATGTGGG	TAAAACTGCT	60
CTCTATAGTA	GCAGAATTTT	GTTTTTCCCC	TTTCCTAGTT	ACTGATGAAG	AGACAGCTTC	120
AGATGCTCTG	GAGAGAAACT	CTCTATCCTC	TCAAGACCCA	CAGCAGCCCA	CCAGTACTGT	180
CTCAGTAACG	GAAGATTCTA	GTACATCGGA	GATTGACAA	GAAGAGAAAG	AACAAACCAC	240
TCAAGATCCT	GACTTGACCA	CCGAAGCAAA	TCCTCAGTAT	TTAGGACTGG	CAAGAAAGAA	300
AAGTGGCATC	CTGCTGCTCA	CGCTGGTGTC	CTTCCTCATT	TTCATACTCT	TCATCATAGT	360
CCAGTCTTTC	ATCATGAAGC	TGAGGAAAGC	ACATGTGATA	TGGAAGAGAG	AAAACGAAGT	420
TTCAGAACAC	ACACTAGAAA	GTTACAGATC	AAGGTCAAAT	AATGAAGAAA	CATCATCGCT	480
CGAG						484

(2) INFORMATION FOR SEQ ID NO:1122:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 247 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1122:

GAATTCGGCC	TTCATGGCCT	ACTTATGTTT	TTCTCATTG	TTGACCTAAA	TGATCTTTAT	60
------------	------------	------------	-----------	------------	------------	----

CCAAACTATT CCAAAATCTG AATTTCTGGG TCCTTCTTTC TTAAAAATAT TCTGTTCAAT 120
 ATTAAACAAA CAAACGTTTG AGAACATGAG TAACCTTTTG ACTTTATCCC GTATCTGTTT 180
 GCTAATGTTT TGTTCATGT CTTCCTGTC AGAACACACT GTTGACAGCAG CTAGGAGTGC 240
 ACTCGAG 247

(2) INFORMATION FOR SEQ ID NO:1123:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 276 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1123:

GAATTCGGCC TTCATGGCCT AGGAGGAAGC TAATAAGAGA CTGTCAAGAT TGTATACCTT 60
 CTTGGTTTCT TTTAAGAATT TGTTCCTTTT CTAATATTAC AGCAAAGCAG CATTTTGTTA 120
 CTGACTGCCT AAAATCACTT AATCTCAGGT GAACGCATCA CTTGCCAAAC TGTGGAATG 180
 CTATTTGTGT TTGTTGCAC TGTTCCTTTC GTTTGTTTGT TTGTTTATTT GGTGGCTTT 240
 TTGGAGAGGG AAATTTGGAA ACGGGACACA CTCGAG 276

(2) INFORMATION FOR SEQ ID NO:1124:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 252 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1124:

GAATTACTAG CAGAGATCAG TGCTATAAGG GAAAAGGAGA TTGATTGAA AGAACTGGA 60
 AAAAGAGACA TTCCCATGAT GGAGAAAGTA TCAGGAAAGA TGGCTGTGT TGAAGAAATG 120
 GAGGCAGATT TGAAAGAAAC TGGAAAGAA AATTTTAGAG AGAGAGGATC TGAAGAGATC 180
 TGTGTTACTG AGGAAAAGGT GGCAGAAATT AAACAACTG GAAAAACAGA CATTTCTCCA 240
 AGGGCCCTCG AG 252

(2) INFORMATION FOR SEQ ID NO:1125:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 317 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1125:

GAATTCGGCC TTCATGGCCT AAACAGAATA TTCTGAGGCT AAAAGAAAAT ACACCCCGC 60
 AAAAATCAAT ATAATATGA TTAAGTACAC AAAACATGCA GCCCATAAAA CATATTTTAC 120
 CTATGAACT GAGACTGAGG AATTTAAGC TAAACAGTCA TTTGTTAAAG AAATATTTT 180
 ACAATTTATT GCCTATGTAT AAGGCAGCAG GCCTGTACTC TCTGTATTT TCAATCTCTT 240
 CCCCTACTCT GGCTCTTCT CAGCATATAA ATATGTTTCT ATCCCTACCT TATGGAAC 300
 ATTCCCATC CCTCGAG 317

(2) INFORMATION FOR SEQ ID NO:1126:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 382 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1126:

```

GAATTCGGCC TTCATGGCCT ACTTTGTAAC TGTGAAATAC TCTCCAGGAT TAAAAGGCT      60
GTGGAGCTCC AGATAAGAA TCGTTTATCT TTCTTCTGAA GAAATTCCTT TGGTTACAAG      120
TTTACCCCAT AAACGGCAAC AACTCACCT CCATCCAAGA CAGACTCAAG GTGGAGGAAG      180
CGTGGAATG TGCTTCGGA CAAAGCTCTC AGTATCCTGG GTGCCATTGT TTCTTCTACT      240
CAGCCGTGTT TTTTCTACTG AGACAGACAA ACCCTCAGCC CAGGACAGCA GAAGCCGTGG      300
GAGTTCAGGC CAACCGGCAG ACCTGCTACA GGTCTCTCT GCTGGTGACC ACCCACCCCA      360
CAACCACTCA AGAAGCCACT CG

```

(2) INFORMATION FOR SEQ ID NO:1127:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 334 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1127:

```

GAATTCGGCC TTCATGGCCT ACAGACTTCT GTGTGTGGGA CTGAAGCACC TGTGTGCAA      60
TCTGAAGAAG CTCTGGTTGG TCAGCTGCTG CCTCACATCA GCATGTTGTC AGGATCTTGC      120
ATCAGTATTG AGCACCAGCC ATTCCCTGAC CAGACTCTAT GTGGGGGAGA ATGCCTTGGG      180
AGACTCAGGA GTCGCAATTT TATGTGAAAA AGCCAAGAAT CCACAGTGTA ACCTGCAGAA      240
ACTGGGGTTG GTGAATTCTG GCCTTACGTC AGTCTGTTGT TCAGCTTTGT CCTCGGTACT      300
CAGCACTAAT CAGAATCTCA CGCACCATCT CGAG

```

(2) INFORMATION FOR SEQ ID NO:1128:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 251 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1128:

```

GAATTCGGCC TTCATGGCCT AGTCTGTCCA TCTGCTTTCT CTGGACCTCC TTCTCATACT      60
TTGAATTTTT TAAGTAGTTT GTCCCTCATA TGATTTTTTT TCTATTTCCT TTTCCCTTCC      120
TGTCCCTCCT TCACTCCTTT CCCTCCACCC TCCCTCCCTC CCTTCTCTC TCCCTTCTCT      180
CCTTCTCTCC ATCCAACCAT CCATCCATCC ATCCATCCAT CCATCCATCC ATCCATCTAT      240
CCTCTCTCGA G

```

(2) INFORMATION FOR SEQ ID NO:1129:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 372 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1129:

```
GAATTCGGCC TTCATGGCCT AATTTTCATGT NCCTTTGAGC TATCTTTCCA TTTTGTAGGA      60
ACACCGTCAC AGGAGACAAT TTCATGGACC TTTGAGCTGT CTTTCCATTT TGTGGGAACG      120
CCGTCACAGG AGACAAATTC ATGTGCCTTT GAGCTGTCTT TCTATTTTGT AGGAACGCTC      180
TCAGAGGGGA CAATTTTCATG TGCCTTTGAG CTGTCTTTCC ATTTTGTAGG AACACTCACA      240
GCAGTGCTTG GGGTTCACGT TTACCTAAAT CCCATGATGG GTGAGAAGAC TGAATGGGAC      300
GTTTATTTT TGTGTTAAAA AGCCACGCA AATAGAGTTT AAAATAGTCT CAGTGAGCTG      360
GGCATTCTCG AG                                     372
```

(2) INFORMATION FOR SEQ ID NO:1130:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 275 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1130:

```
GAATTCGGCC TTCATGGCCT AGTGCCTAGT TACAAGGTTT TATTACAGCA GTATTTCTAA      60
ACATTTGGTT AGTCTGTCTC TGCTTTTCCC ACCATAATTT TCTAGCACTT GTAGCTCACC      120
TTATCTCCCA CTTCCTTTT TAAATAGAAA ACAGGCTTGT TCTGTTTGA CCAGGTATAA      180
CTCTTTGCTC AGACTGTCTC TAAAGCCCAG AAAACTATTC CTCTAGTGGT CCAATGAAGT      240
GTTCCCATTT GAAAGTTTGC CTCATGTCAC TCGAG                                     275
```

(2) INFORMATION FOR SEQ ID NO:1131:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 388 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1131:

```
GAAAATTGAG CCTATGTTGG AGACACTGGA GAATCTTTCC TCTCGCCTGC GTATGCCACC      60
ACTGATCCCT GCTGAAGTAG ACAAGATCAG AGAGTGCATC AGTGACAATA AGAGTGCCAC      120
CGTGGAGCTA GAAAAACTGC AGCCATCCTT TGAGGCCTTG AAGCGCCGTG GAGAGGAGCT      180
TATTGGACGA TCTCAGGGAG CAGACAAGGA TCTGGCTGCA AAAGAAATCC AGGATAAATT      240
GGATCAAATG GTATTCTTCT GGGAGGACAT CAAAGCTCGG GCTGAAGAAC GAGAAATCAA      300
ATTTCTTGAT GTCCTTGAAT TAGCAGAGAA GTTCTGGTAT GACATGGCAG CTCTCCTGAC      360
CACCATCAAA GACACCCAG GACTCGAG                                     388
```

(2) INFORMATION FOR SEQ ID NO:1132:

- (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 278 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1132:

```
GAATTCGGCC TTCATGGCCT AAAGTTATAC CAGCTAAAGT GCAGTAGTGT CACTTTTTC      60
CTGTCAATAT ATAGAGACTT CTAATCATA ATCATCCTTT TTTAAAAAA AGAATTTTAA      120
AAAAGATGGA TTTGACACAC TCACCATTTA ATCATTTCCA GCAAAATATA TGTTTGGCTG      180
AAATTATGTC AAATGGATGT AATATAGGCT TGTGTTGCTG CTTTGTATGG CTACGTTTG      240
GAGAGAGCAA TCTTGCTGTG AACAGTGTG GACTCGAG                                278
```

(2) INFORMATION FOR SEQ ID NO:1133:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 368 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1133:

```
GAATTCGGCC TTCATGGCCT AATCATTATA ATTTAGTTTG AATTCTTAAA ACCCCGTTAC      60
TAGAACTTAT GTTTAAATTT ATAAATTATA AATAGTTTATA AATTATAAAT AAATTGAGAC      120
TGAGGCAGGA AAATCACTTG AACCCAGGAG GCAGAGGTTG CACTGAGCCA AGATCAGGCC      180
ACTGCACTCC AGCCTGGGTG ACAGTGAGAC TCCATCTCAA AAAAAAAAAA AAATTATATA      240
TAAATTCTGG TAAGTAAGTT TGAAGAAAAA CCGATTCAAA TAGTATATAT TCAGCTTTAT      300
AAATTCTGTT AAGCATATTT GAATGAGAAT TTATTAAAAA GGTTTATATT AAGTCTACGG      360
TTCTCGAG                                368
```

(2) INFORMATION FOR SEQ ID NO:1134:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 441 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1134:

```
GAATTCGGCC TTCATGGCCT ACGTCTGATT CTCTAAGTTC ATTTCTTGGT GGTGGAGGCT      60
CATTTCTTCT GGAGTCACTG AAATTTTGGG GATATCTTTC GAAGCTTGGA TCTTCCCTTC      120
GTGCAGTAGG TCGTGCTTTT TTCCCTCAC TTTGACCAAC AAAGCGATCC CGCCTTTCAA      180
AAGATGAAGA CTGTACTGCT GAACTCTCAG GAAACCTGCC CCTCTCTCGG TGATCAAAGT      240
CATTAAATCT GTTCTGTTGG CGAGAGTAGT CGGATCCATG GCCAAATCGT GCATCTGTAT      300
CTAGAGACAA CTTTTTATTC TCGCTCCAGT AAGGATCATC TCGCCTATGA TCTACATCAC      360
GTGGGCGTTT CAAGGAATTC CTTTTCCTT GTTCATAACG AAGCTGCTGT TGTGCGCTTC      420
TGAGTTCCTC TCTTTCTCGA G                                441
```

(2) INFORMATION FOR SEQ ID NO:1135:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 115 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1135:

```
GCGATTGAAT TCTAGACCTG CCTCGAGCAA GAAACGTTTT CTAAGTCAAA GGAATAAATC   60
CAAAGCCTCT AAGACTGGGT GAGAGAGAGG AAAAGAAATG ACGGAAGCAC TCGAG      115
```

(2) INFORMATION FOR SEQ ID NO:1136:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 253 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1136:

```
GAATTCTGGT TTTACTGAAG CTATGTTAGA AACGTCATGT AGAAACTCTT TAGATACTGA   60
GCTTCAGTTT GCTGAAAATA AGCCAGGCAT GTCTTTGTTG CAGGAAAACG TAAGCACAAA   120
GGTGACGAT ACAGATGTCA TGCTCACAGG TGACACTTTG AGCACCTCAT TGCAGTCTTC   180
CCCAGAACTG CAGGTACCTC CTACCTCCTT CGAAACAGAA GAAACGCCCC GTCCGGTACC   240
CCCAGATCTC GAG                                     253
```

(2) INFORMATION FOR SEQ ID NO:1137:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 339 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1137:

```
GAATTCGGCT TCATGGACGA GGAGATCGTG TCCGAGAAGC AAGCCGAGGA GAGCCACCGG   60
CAGGACAGCG CCAACCTGCT CATCTTCATC CTGCTGCTCA CCCTCACCAT TCTCACAATC   120
TGGCTCTTCA AGCACCGCCG GGCCCGCTTC CTGCACGAAA CCGGCCTGGC TATGATTTAT   180
GGTCTTTTGG TGGGCCTTGT GCTTCGGTAT GGCAATTCATG TTCCGAGTGA TGTAAATAAT   240
GTGACCCTGA GCTGTGAAGT GCAGTCAAGT CCAACTACCT TACTGGTAAA TGTTAGTGGA   300
AAATTTTATG AGTATATGCT GAAAGGAGAG ATACTCGAG                                     339
```

(2) INFORMATION FOR SEQ ID NO:1138:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 363 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1138:

```

GAATTCGGCC TTCATGGCCT AATTCAGAGG TGGTGGGACC TTGGCTATGA TTCTGTTCAA    60
GCCCCCTAAT TTTACAGATT TTATGGAATT GAGCAACAGA CAAGATGATT TTGCCTAGGT    120
TCATAAACAG GAAAAAAGGA GAGCCAGGAA AGAACTCAAT TGTTGTAAAC TGCTGTCTTG    180
TCTTGATGTT CTGTCTTCAT TCATCATCCA GCCTTTCCTA GGAGTGTGAG AGATAGACCC    240
AGGTAGAAGT GGGCTGCCCA TGGGGGGCTT AGCACAACAG AAATTTATTC TTTTACTGTT    300
CTGGAGGCCA GACATCTAAA ATAAAGGTGT TGATGGGGTC ATTCTTCCTC TTGAGGGCTC    360
GAG                                                                    363

```

(2) INFORMATION FOR SEQ ID NO:1139:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 367 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1139:

```

GAATTCGGCC TTCATGGCCT ACTTGTAAGT TATTGAGCAA TTTGTGTGAA GTGGGGAAGA    60
TGAAGAAGT CAGAATTGTA AACGGAAGAA TGAAGAAAAG AAATAAAAAT GAAGTTAAGA    120
TAAGAAGTAA TCTGGAATCA GAAAGCACTA CGCTAAGAAT CCGTTCTGTC TTCCAGAAGT    180
GGAAGTGCTC ACGGATCGGG GAAATCTGCA AGGCATACCC CTGCAAGGTC TCGCTCCAAG    240
GAAGATTCCA GCGTTCCAG ATCAAAGTCC AGGTCCCGAT CTGAATCTAG GTCTAGATCC    300
AGAAGAAGCT CCGAAGGCA TTATACCCGG TCACGGTCTC GCTCCCCTC CCAAGGACGA    360
TCTCGAG                                                                    367

```

(2) INFORMATION FOR SEQ ID NO:1140:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 389 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1140:

```

GAATTCGGCC TTCATGGCCT ACACCCTCAC CACCCAAGGG GTCATCATCT CTGGCCACCA    60
CTCCACCAGA TGGGCAGAGC AGCTATGACC GCCACCCAGC CCTCCCGCTC AGGCCACAGC    120
CGGAGCCTCC GCATTGCCCC CACCCCCATT TTCCAGGGGG GTTGTAATTT ATAAGCTGAC    180
GAAGGTAGCC AGACTTCCGG AGGACTGACC ATCTCTCACT GTCCTCCCCA CCTTCTTCCT    240
CACTCACACA TTTTGTGTAC ATCTGGGCCC TTAGTTTTTA TTCTGTTTAT TATATGTCTC    300
TGTCTCTCTC TATTGTGTGT GTGTGTGTGT GTGTGTGTGT GTGTGTGTGT GTGTGTGTGT    360
TGCAGGAGTG CCACCCCAG GGCCTCGAG                                                                    389

```

(2) INFORMATION FOR SEQ ID NO:1141:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 311 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1141:

GAATTCGGCC	TTCATGGCCT	AGCAGCACTA	ATCTTGATGG	GACAGAAAAT	TTCAAATGAA	60
GAGCTTTCCC	TCCTTTTTC	TTCTTGGGG	GCATGCCAGC	TGTGCTTCT	ATGTCAGTAG	120
CCTGTAGTT	GCCATTCCTG	GCCAGACAC	TTGCATGCAG	TTTGGTTTGT	CCTCCACCAC	180
TTTGATCATG	TTGCCCATGG	TCTAGACACC	TCCGTGTCCT	TGTTATCATG	GCATATAGTC	240
TGTATGCCTC	TGCTGGATTT	ATAAGCGGCC	CCATAATAGC	CTTCCTTCT	GGTTACCCCC	300
TTGATCTCGA	G					311

(2) INFORMATION FOR SEQ ID NO:1142:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 530 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1142:

GAATTCGGCC	TTCATGGCCT	AAAAGATCAG	ATTTTGTCAT	TTAAGACACA	TATTTTACAT	60
TCAAAAATGT	AAAGTCAGGG	TGTGTCTTAA	AATCCATTGG	TGTTTTAATC	ATGCTTAAAC	120
ATGTGACTGC	TGTTGGCCAG	GATACAGTTG	TGGTGGTGTC	GTCAGTATCT	GAGCACATGT	180
GAAGTTNGCC	ATGACTATTC	ATATTGTCTT	CTCTTAAACT	GAATTATGTC	CATGGTTGCC	240
AACATGTACT	GTCCATAGTT	GCCACCATGT	ATTTAGGTTG	TCATTTAAAA	TGTCCTCAAA	300
AAGATTTTAC	CATGATTCTC	CATCAAAATA	GAAAGCTATT	TTGTATGAAG	AAGAACTCAG	360
ACCAGAAAAG	TCTGATAAAA	ATAATCTCTT	AAATAAGTCT	ACATTAGGTC	TTTCAATTTG	420
TATAAAATGT	AAATTTTGAA	TTATAAGAAA	ACAATTTGTT	ATACTGTAAT	TGGTAGCATT	480
TTTTCTTAGT	AGTGACAAA	ATAATGTGTA	CCTTACATTC	AAATCTCGAG		530

(2) INFORMATION FOR SEQ ID NO:1143:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 615 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1143:

GAATTCGGCC	NNCATGGCCN	ACCTATGTNA	NGNATTTCNN	CTCCATTINC	CCNAGGGTTC	60
TTTCCTGTTC	TTAGAAATGT	TTTGTGATTT	TGCTTCAGAC	ACAGTTTGTC	TACTTCTNGT	120
AAGCATTGTT	CTTAGATNGC	TGGCTTTATA	TCTATCACTC	CCTTGCTCAT	CTGCCCCATCC	180
ATCTATCCAT	CCATCCATCC	ATCCATCCAT	CATCCCTCCA	TCCACTTGCT	CATCTGCCCA	240
TCCATCCATC	CATCTATCCA	TTCATCCAGT	CCATTACCA	CCCACCATCT	ATTATCCATC	300
CATCCATCCA	TCCATCCATC	CATTATCCA	CTCACCATT	CATCCATCAT	CCATCCACTC	360
ANCCATCCAT	TCATTAGTC	ACCTTCATC	CATTCACTCA	CCCATCCTTC	CATCCACTCA	420
TCCAATCACC	CATCCATCCA	TACATCCACT	CATCCATTCA	CCATCCATAC	ATCCACTCAT	480
CCATTTCATCC	ATCCATCCAC	CCACCCAGAC	GTCGGTCCAT	CNATCCATCC	ATCCATNCAT	540
CCTTCTATNN	NNCTGCCAA	CAATCCANAC	ACNTGTCCNT	CNATCCCTTC	CAACCACTCA	600
CCCAGCACAC	TCGAG					615

(2) INFORMATION FOR SEQ ID NO:1144:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 57 base pairs

(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1144:

GAATTCGGCC AAAGAGGCCT AACCGCGGCC GCTACTTCGG CCTCTTTGGC CCTCGAG

57

(2) INFORMATION FOR SEQ ID NO:1145:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 227 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1145:

GAATTCGGCC TTCATGGCCT AGGTTTTCTT TTATTTAAAA GATCATTCAC AAAATACCAT	60
ATCCATAGAT TTACTTTCTG TCATATAGCT GAATGTGTTA AGTGTTTGGA ATTCCATTCT	120
TACATTTAAA GGTCAACTGG ATTGCCAGC AGTTTAGATG CATGTGTTT GTTCTTTATC	180
TTATCCACAT TGAAGATGTA AGTATTGAAT TCTAGACCTG CCTCGAG	227

(2) INFORMATION FOR SEQ ID NO:1146:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 447 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1146:

CTCGAGTATC TCCTCCTTTC TGATATCCAG TTTAGGTGGT CCAATTTTTC CATCTCGGCA	60
TACAGCAAAT TCITCTGACT TTGCATAGGC AGATTCTTTT TGTCCAACCC TGGCTTTAAC	120
TCTGACCCAA AGAGAATTTG ATGGATCACC AACATGATCA GAAATATTAC AATAATGATG	180
AGAAATATTG ATGCAGGCAT CAATCCATTC TGAATTCCTA ACACCATAGT TCTTTACCTC	240
TACGGTAAAA ACAGGGACCT GTGGCATGAT CTGGTACTCC CAATATACGA TAGGGTTCAT	300
GTTATAGGAT TCAATTGTAA CATTAGTTGG TGTAGGCACT GAGGACGGCC CCAGATCCGC	360
GGTGCCCATC TCAGCCCTGC TCACACCCTG CATGACAAGG GGTAGGAGAA AGAGGAGAGC	420
CATGCTGCTA CCGACGGTCG CTGGCTC	447

(2) INFORMATION FOR SEQ ID NO:1147:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 271 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1147:

```

GGGGGCCATG TTTGCCATCT CAGGTCCAGG TTTCTCCCGG ACTTGAAGA GTCATTATC      60
GGGTCTGATT TTCAGTCCT TCTGCAGAGT CTTCCGGAGC TCCAGCATCC GCTGCTGCAT      120
CTGCTTTATG GTCTTATTTT TCTCCAGAAG TTGCTGCTCC AAGTCCTGTT TCTCCTTCTG      180
TAGCTGTGTG AGATCCATGG CCCCAACCTC ACCATTGGT GTTCTTCCTG CAGTTGGAAG      240
CTGGAACACA GGGTCCTGCA TGGCCCTCGA G

```

(2) INFORMATION FOR SEQ ID NO:1148:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 298 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1148:

```

GGATTGGGGA GGGAGTGTC GAATAGGTGT GGGTGACAGA CATCAAGTAC TTAACAGGGT      60
AATAGAATAT CACAAGGCAA GTGGAGGCAG GGCAGATCA CAGGACCACA GGACCAAGGC      120
AAAATTAAAA TTGCTAATGA AGTTTGGGC ACCATTGTCA TTGATAACAT CTTATCAGGA      180
GACAGGGTTT GAGAGCAACC GGTCTGACCA AAATTTATTA GCGGGAATT TCCTCCTCTT      240
AATAAGCCTG GGAGCGCTAT GGGAGACTGG AGTTTATTTC ATCTCTGCCT GCCTCGAG      298

```

(2) INFORMATION FOR SEQ ID NO:1149:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 332 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1149:

```

GAATTGGGCC TTCATGGCCT ACGGCATTTC AGCGTCAAGT GCACTTAGCG GGGTACCCGG      60
CTCCCCCAGC CCCCACACCC GTCCTGGGTC TCAGGGTGGT TCCAGCTTCT CCTTGGGCAG      120
CCAGAAGTTG GAGTCCCATC CCCCANNNGA NATTTTTTTT TTTTTTTTTT TGTGATCAGG      180
GAGTGTGTCC AACGTAGCCC CCTGGCCTGT GCAAGCCCTG ACTCCCTCAT GGTGCCTCGG      240
AGAGTGGGGA GCATATTGGG CTGGGGTAAG CACTAGACCC AAGTAGACTG GACACAAAGG      300
GCTCGCCCGG GGCCCTGGCG CCACCCTCG AG

```

(2) INFORMATION FOR SEQ ID NO:1150:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 400 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1150:

```

GCGAGGCAGG GAAACTCACT TCACGTCTCT TTCCTGTAG AGCATCATGC TTATTTCTGG      60
CTCACTCACA TCTTTGTCTC GGGAGTTCTC TGCCGAGCCA TTGCCCCCTA CAGCAGAGAG      120
CACAGCTGGC TGCCTAGTGT CTGAAGGAGC CAGCCCCAGA GCAGGGCATT TCCAGGGGCT      180

```

CTTGTCCTCAG	AGCGGCAGGC	GTTGTGTGCA	GAGAACGCCC	CTCCACGCA	GCACAGAGAA	240
CGCGGGGTGG	GTGTGTGGCT	CCGGGCCTGT	GGGGCTTAGG	CTGCCTGAAC	CACCGCCGAC	300
TGGCACCATG	ACTCGGCATT	CCTGGAAGTG	CCTTACCAAG	TTGTTGTTGT	TGTTTTGTTG	360
TTTTTAAGA	GACGGGCTTG	CTCTATCATC	CAGGCTCGAG			400

(2) INFORMATION FOR SEQ ID NO:1151:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 329 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1151:

GAATTCGGCC	TTCATGGCCT	ACCCAGACAA	ATACCAAGTT	TATTTACAA	ACACTAGGAA	60
GATGGGTGGA	GGGTGGAGGT	GGGGACACA	GGTGCGCAGC	TGCACAGAGT	CAGCAGCAGC	120
AGCCTGCTCC	CCGCACTGAG	GACTCGGCCT	GGANTGCAGT	GCCTCCAAAT	CAACACGCAG	180
CAAGAGGGGA	GTGCAGGGAG	GGCCCTGAAC	ACCAAGCCTC	TGAAAGGCTA	AGGGACACAG	240
CTCCAGCTGT	CCCAGGAAAA	CCAGCAATAA	ATAAAAGTGA	GGCACGGCCC	CACCCACACA	300
TATCATCTAG	TCACCCATCT	TCACTCTGG				329

(2) INFORMATION FOR SEQ ID NO:1152:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 313 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1152:

GAATTCGGCC	TTCATGGCCT	ACCCATAGCC	ATGAGCATGA	CTGGCTGCCA	GCTCTTAGTC	60
ACCAAATGCC	ATTCTCCGCT	GAAAGAAGCA	AGGGCTTTTC	AGAGAATAGA	CTGAGCACAA	120
AAATGACAAT	GGTAATGGAG	TAGAACACCT	TGACTTTTAA	AAGTCCACGA	GTCCACAGTG	180
ATGCCTAAGG	GAAGTAGGGA	GGAAAGCTCT	TCTTTACAAC	ATCTTCCAGC	TAACAGATGG	240
AAAAGGAATG	ACAAAATGAA	AAATCACCAT	ATTGCAACTC	TCAATAAAGT	AACTGATTCA	300
GGCATATCTC	GAG					313

(2) INFORMATION FOR SEQ ID NO:1153:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 324 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1153:

GGGCTCCTCG	CCAAGGAACT	CGTGGCAGAA	GAGGGCAGCA	GTTGGCAGTA	GCTGCCGATG	60
TCTGTCCCCA	GCTCCACCAT	TCCTCCCTGT	GGCTGTGCCG	TGCTCGTGGT	TTCAGTGTCC	120
GTGTGTCCAT	GTGTCTGCCC	TTCAGGAGCT	CGCAGCTGGT	GTGCTTGGCG	GTCCCAGGCC	180
TGTGTAGTGT	CTCTCCCTCG	CTGCGGGCGC	CCCCACCCCG	ATTCTCTCTC	CCAGAAGCGG	240

TGGGATGGGC CCCCATGAAC TGCAGCAGCA TGCTGAGGTG TCCATGTTGT CTGCCTTTGT 300
ATAAAGAAAC AGCCTCTACT CGAG 324

(2) INFORMATION FOR SEQ ID NO:1154:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 327 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1154:

GCGAGTTCAG CGGAGAAAAG AAAAAGCAAC GTTTAATTCT AGAAGGCCTC CTGTCCCTGC 60
 CTGCTCTGGG TGCTCATGGA ATCAGCTGCT GCCCTGCACT TCTCCCGGCC AGCCTCCCTC 120
 CTCCTCCTCC TCCTCAGCCT GTGTGCACTG GTCTCAGCCC AGTTTATTGT CGTGGGGCCC 180
 ACTGATCCCA TCTTGGCCAC GGTGGAGAA AACACTACGT TACGCTGCCA TCTGTCACCT 240
 GAGAAAAATG CTGAGGACAT GGAGGTGCGG TGGTTCCGGT CTCAGTTCTC CCCCAGTG 300
 TTTGTGTATA AAGGTGGCGC ACTCGAG 327

(2) INFORMATION FOR SEQ ID NO:1155:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 504 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1155:

GAATTCGGCC TTCATGGCCT ACGAGCCCTT TGCCTCCAGT AGTCCCACCT TTCTGGACTG 60
 AACTGATATT CACCTTACAC AAATGGATTG ATGTCTCATG TCTCCCTAAA ATGTACAAAA 120
 CCAAGCTGTG CCCACCAACC TTGGGCACAT GTCATCAGAC CTTCTGAGGC TGTGTCACGG 180
 GTGCACGTCC TCAACCTTGG CAAAATAAAC TTTCTAAGTT ATCTGAGACC TGTCTCAGAT 240
 TTTTGGGGTT CACACACCAT ATGTCTGAAT ACTGTCTTTT CCTATCTCTG GCTCCATCCC 300
 ACATTGTAAG GGGCCTTGCA CACACAAATG TGGACATTCC AGCCTGCACA CCTAAGCATC 360
 GCCTCCACTC CCACCCTTCC AGCGGATGGG TGTGAAACT GGCAGTGTG TTCATCTTCA 420
 AGATGATGTA TACAGGAAAG TGGTCCAGGC AGATCCTGTG AGCAGGCTTG GGCCCACTTG 480
 GGAAGAGTAA CCCAGGATCT CGAG 504

(2) INFORMATION FOR SEQ ID NO:1156:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 686 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1156:

GNNNNNNNNN NNNNNNNNNN TTCCCCCTTN TNNCATGTTT TGTTCCCTTN TCCTTGTTTN 60
 TTTTTCGGC AAAATATTTC AAGNTATACC CAGGCAACAT NAANTCCAGT TCGGATTTTA 120
 ATTAGTCGAG TATGCAGCGT CTTTTCATTT TTATTACTCA AAAAAGTTTC ATTTTTTTAT 180

TTAGCTTTCT	GACTCTGTGC	TTGTGCCTTC	AACACTTTCA	CAACGATTTT	CTGCTCCTCG	240
ATAAGGAAAG	CACGCTTGAT	CCTGTCACGA	ACACATTTAG	CACACATGGA	ACCACCATAG	300
GCCCTGCTGA	CATGTTTCTT	TGTTTTGGAC	AATCTCATAA	GAACTTTAGG	TCTTACAGCA	360
CGAACCCCTC	GAAGTCTGCC	TGGGCACACA	CCACATGCAG	ATTTTGGTGC	TTTCCCAACC	420
TTCTTGGTAT	AAAGGTAAAC	AATTCTATTA	CCAGGGGTTC	GGGACAGCCT	AGTTTTGTTA	480
GAGGCTGTAT	TGTAGGAAAG	CCTACGTCGG	TATGTCAAAC	GCTGGACCAT	TCTGAGTGCC	540
TGCAGACAAC	CAAGGGTGAC	TATAATGACA	GCGTGCAAGT	TGTGGACTGT	GGACTAAGTC	600
TGAATGATAC	TGCTTTTGAG	AAAATGATCA	TTTCAGAATT	AGTGCACAAC	AACTTACGGG	660
GCAGCAGCAA	GACTCACAAC	CTCGAG				686

(2) INFORMATION FOR SEQ ID NO:1157:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 274 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1157:

GCAATTTGCT	TTTTTAAAAA	TACATTTTCA	TACACTAAGT	TTTCTGTAG	CCTAAGTAAT	60
TATATTTCTA	ATTAAC TTCA	AAGTAATTGA	TAGGTGGCAA	AGGATATCAA	TCAAAACCAG	120
TCCAAGTAAA	AAATGTACAC	TAATTTAATA	ACAATATTAT	TCTATATTAC	TTTTTTTTTT	180
TTTTTTTGAC	ACAGGAGTTT	CACTCTTCTT	GCCCAGGCTG	GAGTGCAGTG	GCACGTCTCG	240
GCTCACTGCA	ACCTCCACGC	CCCCCAGACT	CGAG			274

(2) INFORMATION FOR SEQ ID NO:1158:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 196 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1158:

GAAGATGGAC	AACCGGGATG	TTGCAGGAAA	GGCTAACCGG	TGGTTTGGGG	TTGCTCCCCC	60
TAAATCTGGA	AAAATGAACA	TGAACATCCT	TCACCAGGAA	GAGCTCATCG	CTCAGAAGAA	120
ACGGGAAATT	GAAGCCAAAA	TGGAACAGAA	AGCCAAGCAG	AATCAGGTGG	CCAGCCCTCA	180
GTCCCCACAT	CTCGAG					196

(2) INFORMATION FOR SEQ ID NO:1159:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 141 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1159:

GAATTCGGCC	TYCATGGCCT	AGAGGTGAAA	TACAGAAAGC	CTTTTTTTCT	TGATCTTTTC	60
CCGAGATTCA	AATCTCCAAT	TCCCATTGCG	GGGCAAGTTT	TTTTCTTCAC	CTTCAATATG	120

AGAATTCAGC GAACCTCGA G

141

(2) INFORMATION FOR SEQ ID NO:1160:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 355 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1160:

GAATTCGGCC	TTCATGGCCT	AGTAATATAT	ATAATTTATA	AGTAAATATA	AATTAGGGAG	60
GTGTACTCAA	CATTTTCATA	GAATACATAG	TCAAAAATGG	TTTGCAACCT	CTGCCTAACA	120
AAAATAAAAC	ACCCTACATC	TTTGGTTCAA	GATTGTCACC	CCCAACAGTT	GTGTGAAATG	180
TGGGGCAGGA	ATTATCACTA	TTTTCCTTTG	GAAATTAAGG	TTCCAAAGAT	AATGAGACCA	240
GAGCCAAAGG	TCAGAGTCCA	CTGTCTTCTC	TCTGAGGCCT	CAATGTGAAG	ACCTGAACTG	300
TGGCAGCAGA	TAATTCTGGA	GACCTGTAA	TCAGCTGTAT	GCACCACAAC	TCGAG	355

(2) INFORMATION FOR SEQ ID NO:1161:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 257 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1161:

GTATTCATC	ATATAATTTT	CTTCGAATTG	GGAATTTAGG	CAGTATGTTA	TGGGATTTT	60
TTTTTAATTT	ATTTTITTTT	TTTTTAGGAA	GCTTGTTTCT	CTTTGCATT	TATAGAGAGC	120
ATGTTTATAT	TAAAGAGTAC	CTTCCTACT	ATAGAACACA	TTTGTGGGTG	GATTCGGTCC	180
TTTTCTTTCT	ACCCTCCCTG	ATTGCTGCTA	ACAATCCAGA	AAGACAGAAA	TTTGTTTTTC	240
ATTCAGGCAC	ACTCGAG					257

(2) INFORMATION FOR SEQ ID NO:1162:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 220 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1162:

GAATTCGGCC	TTCATGGCCT	ACTGTTTCCT	TGCCCTTTTC	ACCGTCTGGT	GGTTCCTGC	60
AGCCCTTGGC	TTGTGGCCCT	CTCATCCATC	TTCCGAGCCT	AGCACTCCAG	TCTCTGCTTC	120
TGTCATCACA	TGCCTTCTC	TTGAGAAAGA	TCCCAGGCTG	GTATTTAAAT	TGCCTGTTGG	180
CAGGAACTTT	GCCTGTCTTC	CCCTACCCCC	ACAGCTCGAG			220

(2) INFORMATION FOR SEQ ID NO:1163:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 405 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1163:

```

GAATTCGGCC TTCATGGCCT AATCACTTGA GGTCAGGAGT TCATGACCAG CCTGGCCAAC      60
ATGTTGAAAC CCCATCTCTA CTAAAAATAC AAAAATTAGC TGGGCATGGT GGGGGGCACC      120
TGTAAGTCCCA GCTGCTAGGG AGGCTGAGAC AGGAGAATCA CTTGAACCTG AAAGGTGGAG      180
GTTGCAGTGA GCGGAGATCG TGCCACTGCA GTCCAGCCTG GGTGACAGGG CAAGACTCCG      240
TCTCCAAAAA AAAATTAAAA ATAGAAATAC ATTTTAAAC CCAGATACTT GTAGCATATA      300
TAAGGGACAA TTGCAGTTTG GAAGGTACTT CCACATGTAT TATATAATTT TATTTTAA      360
AATGAATCTC ATTTGGTTGT CATGAAATTT GGCAAGCTTC TCGAG                      405

```

(2) INFORMATION FOR SEQ ID NO:1164:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 259 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1164:

```

GAATTCGGCC TTCATGGCCT AGCAGAAGCG AGAGGAGGAG GAGAAGAAAG CGGAGTTCGA      60
GCGGCAGCGA AAAATTCGAC AGCAAGAAAT AGAAGAAAAA CTCATCGAGG AAGAAACAGC      120
ACGAAGAGTA GAAGAATTGG TAGCAAAAAG GGTGGAGGAA GAACTGGAGA AAAGGAAGGA      180
TGAAATTGAA CGAGAAGTTC TCCGAAGGGT GGAGGAAGCC AAACGCATCA TGGAAAAGCA      240
GTTGCTCGAA GAACTCGAG                      259

```

(2) INFORMATION FOR SEQ ID NO:1165:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 114 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1165:

```

GAATTCGGCC TTCATGGCCT AAATTTTCAGC AATACAGCTC TCACATACAT AAATTATAAA      60
ATAATTTTAT TTAAGGTGAT GAAATTTATA AGCAGGTTCA AAAATATAAT AAAA          114

```

(2) INFORMATION FOR SEQ ID NO:1166:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 316 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1166:

```

GAATTCGGCC TTCATGGCCT AGTCAGCAAC ACCCAACACT GTCTGTTTTT CATTGTGTGG      60
TTTAAATCAT AAAATTGTCA AGTGATTTCGT GTTTGTACTT TATTTTTTTG TGCCTTCTGA      120
AAGGATCTAA AACAAAAATA TTTGCCTTT TTTTCCCCAC GTGTATCTGA ACATTAAGCA      180
GATTGGCTCA GACACAATGA AAAGGATAAT CCAATGTACG TGCTGGTGCA CTCTGCTAGT      240
TGTTATCTCT GTAGGGCTCA GGAAGCTGGA AGGAGGAAGG GAGGGTAAGT GGCCTGGTGA      300
GTGGAGGTGG CTCGAG

```

(2) INFORMATION FOR SEQ ID NO:1167:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 300 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1167:

```

GAATTCGGCC TTCATGGCCT AGGTACCAAT AATTCTTCA CTCTTCAAC TGCTCTCTTC      60
AATTGTGATT CTGCTCTGTT CTGAGCATCT TCCACAGTGA TTAGTACATG TAAATCTTCA      120
TTTAGATGCT CCCAATTGGG CTTCCTCTTA TTTGCTCCT CCTTTTTTT ATCCCTCATT      180
GAGCCTTTCG CTCGGACCAT GATTTTACAT CCGGTTTCTG CTCAAGTTG TTGGCTGTA      240
AGTCCTCTAG GTCCAAGGAT TCTCCAACA AAATTAACT TCGTCCAGCA GCCGCTCGAG      300

```

(2) INFORMATION FOR SEQ ID NO:1168:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 229 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1168:

```

GAATTCGGCC TTCATGGCCT ACCTTCACAG AAAAATGCAT AGCTGGATGC TGCAGACTCT      60
AGCGTTTGCT GTAACATCTC TCGTCCTTTC GTGTGCAGAA ACCATCGATT ATTATGGGGA      120
AATCTGTGAC AATGCATGTC CTTGTGAGGA AAAGGACGGC ATTTTAACTG TGAGCTGTGA      180
AAACCGGGGG ATCATCAGTC TCTCTGAAAT TAGCCCCCCC GATCTCGAG      229

```

(2) INFORMATION FOR SEQ ID NO:1169:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 348 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1169:

```

GAATTCGGCC TTCATGGCCT AGTGCTGGGA GCGCAGCCGG CGGGCGAGGC TGCCTGGAAC      60
GTGGAGCTGC TGGAGCTGTC CGGCTGACCT GGAAAGTTCT TTGGCCTCTA GGCTTTACCT      120

```

GGAGGCCTCT TCCTTCAGCT CCTGTGTTTT CCGCACCTCC TCGGCGTGCT TGTCTTCTC	180
TTGCAGCCGT TCCAACATGG CCGCGAGGTG GGCTCCCTG TTCTCCTTGT TGGATTCCAT	240
CTTCTGGGCC AGTTTTTCCT TAGCCATCTT GATGAAGTTG TTGTTTTCTT CAATGGCCTT	300
TTGGATCACC TCTCTCTCAT GTTCCCGGAA TTCTAGACCT GCCTCGAG	348

(2) INFORMATION FOR SEQ ID NO:1170:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 81 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1170:

GGCTTTTCC AAATGCTCT GGCTACCATA TAGAAAATTG ACTGAAGGAG GGCCAAGATG	60
GAAACAGAGA GGACGCTCGA G	81

(2) INFORMATION FOR SEQ ID NO:1171:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 418 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1171:

GAATTCTGAG GGACTAACTA CGACCATGAG ATTGGCAGTG ATTGCTTTT GCCTATTGG	60
CATTGCCTCC TCCCTCCCGG TGAAAGTGAC TGATTCTGGC AGCTCAGAGG AGAAGAAGCT	120
TTACAGCCTG CACCCAGATC CTATAGCCAC ATGGCTGGTG CCTGACCCAT CTCAGAAGCA	180
GAATCTCCTT GCGCCACAGA ATGCTGTGTC CTCTGAAGAA AAGGATGACT TTAAGCAAGA	240
AACTCTTCCA AGCAATTCCA ATGAAAGCCA TGACCACATG GACGACGATG ATGACGATGA	300
TGATGACGAT GGAGACCATG CAGAGAACGA GGATTCTGTG GACTCGGATG AATCTGACGA	360
ATCTCACCAT TCCGATGAGT CTGATGAGAC CTTCACTGCT AGTACACAAG CAGTCGAG	418

(2) INFORMATION FOR SEQ ID NO:1172:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 431 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1172:

GAAAACAGCA CTGCATGTCT TTGGCAAGCC ACAAGTTTCA TAGATACAGC TGTGCTCACT	60
GCAGAAAGCC TTTTCATAAG ATAGAAACAT TGTACCGACA TTGCCAAGAT GAGCATGACA	120
ATGAGATAAA GATTAAATAC TTCTGTGGGC TTTGTGATCT TATCTTTAAT GTGGAAGAAG	180
CATTTTTGAG TCATTATGAG GAGCACCACA GCATAGATTA TGTATTTGTG TCAGAAAAAA	240
CTGAAACTTC AATTAAACC GAAGATGATT TTCCAGTAAT AGAGACCACT AACCAGTTAA	300
CTGTGCGTTG CCGTGAGAGT TACATCTGTA AAGTCAACAG AAAAGAAGAT TATAGCAGAT	360
GTCTCCAAAT CATGCTGGAT AAAGGAAAAC TGTGGTTTCG CTGCAGTTTA TGTTCGGCAA	420

CAGCACTCGA G

431

(2) INFORMATION FOR SEQ ID NO:1173:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 319 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1173:

```

GAATTCGGCC TTCATGGCCT ACCCCCTTAAA GGAAAGAATG GCTGCTCTAG AAGAAAAGAA      60
TGTTTTAATT CAAGAATCAG AAACCTTCAG AAAGAATCTT GAAGAATCTT TACATGATAA      120
GGAAAGATTA GCAGAAGAAA TTGAAAAGCT GAGATCTGAA CTTGACCAAT TGAAAATGAG      180
AACTGGCTCT TTAAT.GAAC CCACAATACC AAGAACTCAT CTAGACACCT CAGCTGAGTT      240
GCGGTACTCA GTGGGATCCC TAGTGGACAG CCAGTCTGAT TACAGAACAA CTAAAGTAAT      300
AAGAAAACCA AAATCGAG                                     319

```

(2) INFORMATION FOR SEQ ID NO:1174:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 171 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1174:

```

GAATTCGGCC TTCATGGCCT ACTTAATATA TTTGTGAGAT AATTATTGAG ACATTTTATT      60
AATATTTTAT TTAGTCTTAG AATTTTCAGAG AAAAGTGAAC CTAGAGAGGT ACTTCTCCTG      120
GTTCAAACCTG TGAACATGAA AATTCTGAAT TTAAGTAACT GGATCCTCGA G              171

```

(2) INFORMATION FOR SEQ ID NO:1175:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 366 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1175:

```

GAATTCGGCC TTCATGGCCT AAGGAAACAA AAAGCTAAGG GCAAAATGTA CAAACTTAGA      60
AGAATTGGAA GATAGAAACA AGATAGAAAA TGAAAATATT GTCAAGAGTT TCAGATAGAA      120
AATGAAAAAC AAGCTAAGAC AAGTATTGGA GAAGTATAGA AGATAGAAAA ATATAAAGCC      180
AAAAATTGGA TAAATAGCA CTGAAAAAAT GAGGAAATTA TTGGTAACCA ATTTATTTTA      240
AAAGCCCATC AATTTAATTT CTGGTGGTGC AGAAGTTAGA AGGTAAAGCT TGAGAAGATG      300
AGGGTGTTTA CGTAGACCAG AACCAATTTA GAAGAATACT TGAAGCTAGA AGGGGAAGGA      360
CTCGAG                                     366

```

(2) INFORMATION FOR SEQ ID NO:1176:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 222 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1176:

```

GAATTCGCC TTCAGGCCTA CAAGAATTTT ATGCCATCCA AGAGTATTAG CACAAATAAA      60
TAAAGGCAAT TTGTAAATTT TTTCCCTGAA AATCTAAAAA ACAAGAAAAC TATCTCTTCA      120
GGGTGATTAT AATTAGGTCT ATGAGACTCT CAAGGTCCCT TTAGTGATTG AGAATCTATA      180
GTTGGAAATA CTTATTTTAA AATGTTTCAGG CAGTTGCTCG AG                                222

```

(2) INFORMATION FOR SEQ ID NO:1177:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 367 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1177:

```

GAATTGTCCA CAGCCTGTCA TGCCGCACAA CTGTCCACGC TCGGTTCTCT CGGATATCAC      60
AGTACACTAC AAATGGCTTC AGGGGGCCAC TGCCATCAGG ATCAATGGTG AAGTTTCCAG      120
AAGTTTTCCC ACTGAGCCGA TAAGCCTCAC AGGATTCCTT ATACAAAGGT GTGTGGCAGG      180
TCTCTCCCTT GTAGCCCGTC AGTTCGCAGT AGCAAATGAA GTCATCCCAA GACTGGTAGC      240
AGCGTCCATC ATGCTCACAC ATGTTAGGGC TGCACCTATC AGTGATGCCA CATGTATCAA      300
AGAGGACCTC AGCATAGAAT CCAAGCCGCC GGCCCTCCAC CAGAGTCAGG TTGACCAGTT      360
GACCGAG                                           367

```

(2) INFORMATION FOR SEQ ID NO:1178:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 367 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1178:

```

GAATTTAGAA CGGGTACAAA AGGACCTAAG CCAAACACAG TGTCAAATGA AGGAAATGGA      60
ACAAAAGTAT CAAAATGAAC AAGTTAAAGT GAATAAATAC ATTGGAAAGC AGGAGTCTGT      120
AGAGGAGAGA TTGTCTCAAC TACAAAGTGA GAATATGTTG CTTGACAAAC AACTGGATGA      180
TGCCCAACAC AAGGCTGACA ATAAAGAGAA GACAGTGATT AATATCCAAG ACCAGTTTCA      240
TGCTATTGTG CAAAACTTC AAGCTGAGAG TGAAAAGCAA AGTCTTCTGC TAGAAGAAAAG      300
AAATAAGGAG TTAATCAGTG AATGTAATCA CTTAAAGAA AGACAGTATC AATATGAAAA      360
TCTCGAG                                           367

```

(2) INFORMATION FOR SEQ ID NO:1179:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 247 base pairs

- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1179:

```
GAAACCGAAA GTGGAATGT ACTCTGGGAG TGATGATGAT GATGATTTTA ACAAACCTTC      60
TAAAAAAGCT AAAGGGAAAG CTCAAAAATC AAATAAGAAG TGGGATGGGT CAGAGGAGGA      120
TGAGGATAAC AGTAAAAAAA TTAAAGAGCG TTCAAGAATA AATTCTTCTG GTGAAAGTGG      180
TGATGAATCA GATGAATTTT TGCAATCTAG AAAAGGACAG AAAAAAATC AGAAAAACAA      240
GCTCGAG                                           247
```

(2) INFORMATION FOR SEQ ID NO:1180:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 149 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1180:

```
GAATTCGGCC TTCATGGCCT ACGAGTTCTT CATGCTTGTT GTTGAGATTG GAGATGTTTA      60
TTGGTAAACAT TGTCTTTTTT CCATCCTTTT TTTTCTTTCC TAACCTGGTT TCTTCCAGTG      120
CAACTGCAGA TAGAAGACCT GACCTCGAG                                           149
```

(2) INFORMATION FOR SEQ ID NO:1181:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 251 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1181:

```
GAATTCGGCC TTCATGGCCT AGAAAATTAA ACTGTTTTTT AAACCAGGTG TTCACITTTTC      60
ATTGATTTTT GCATAGTACT TGGTGAACCC TATTGATTTT TAGATTCAGG TAATTTTTCA      120
GTGTGAAAGA GTTTTCTGT TATATCTTCA CTGTGATATC CATTCCATTC CCTTCTCAGT      180
TAATACTCAG TTTAGCTCTA GTATCTGTCT CTCAAATTAT GTTTAATTGC TTTTATCACT      240
TTGTCCTCGA G                                           251
```

(2) INFORMATION FOR SEQ ID NO:1182:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 176 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1182:

GAATTCTAGA	CCTGCCTAGA	GTGCTCTGTG	TATGCGGATG	ATTTAGAATT	GTCATTTCTC	60
TTTACTGGAT	GTTTATTTAT	AAAGATCTGG	CCTGTTCCCTG	CGTCTGCGGA	GCGGCCCTTG	120
TCTCCCAGCT	ATCTATAACC	TTAGCTAGAG	TGTCGCCTTG	TGGGTTCCCT	CTCGAG	176

(2) INFORMATION FOR SEQ ID NO:1183:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 410 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1183:

GAATTTAGAA	TTCTTGACGG	GTTCTCGGGG	GTTCTGTGTG	TATAAAGGCC	TTCATTACTT	60
TAGTTATACC	CAAGTGAAAG	GGGCATTTAC	CTCGTGACAA	GTGGATTATA	GGAGAAAAAG	120
AGGAGATGGT	AGGTCAGAGT	GTGCTTAGAA	GTCA TGCCCA	GTGTTCTCAT	CAATGCCAGA	180
CATTACGGGC	TGCCCTTCCA	TCAGCCATTC	TACCTTTCTT	CCTGCTAACA	ATATCCCAAT	240
TTTGTTCAAG	TATCAGGCCA	CTTAATATGT	TTCAGGGAAA	ACTGGTTCCA	GCCCAGAGCA	300
GTGTGGACCT	TGATTACATC	AAACTAATCA	TGGTGAGTCC	ATTTTCCTTG	CCAGAAATTC	360
GTTTAGGAGT	GGACATGTAT	TTCATTGTG	AGTACACAAG	ACGACTCGAG		410

(2) INFORMATION FOR SEQ ID NO:1184:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 286 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1184:

GGAAACAGAC	AGTACCAAGG	AAGAAGCAGC	TAAGATGGAA	AAGGAATATG	GAAGCTTGAA	60
GGATTCCACA	AAAGATGATA	ACTCCAACCC	AGGAGGAAAG	ACAGATGAAC	CCAAAGGAAA	120
AACAGAAGCC	TATTTGGAAG	CCATCAGAAA	AAATATTGAA	TGGTTGAAGA	AACATGACAA	180
AAAGGGAAAT	AAAGAAGATT	ATGACCTTTC	AAAGATGAGA	GACTTCATCA	ATAACAAGC	240
TGATGCTTAT	GTGGAGAAAG	GCATCCTTGA	CAAGGAAGGG	CTCGAG		286

(2) INFORMATION FOR SEQ ID NO:1185:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 417 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1185:

GCGATTGAAT	TCTAGACCTG	CCTCACCTTA	CCCCAGGACT	CCGCTATGAC	ACCGCCTCTG	60
CCCCTACAAG	ACACAGATCT	CTCGTCAGCC	CCAAAGCCTG	TGGCTGCAGC	CACGATTGTG	120
TCCCAGCAGG	CTGAAGAGGG	CCTCACCTTA	CCCCAGGACT	CCGCTATGAC	ACCGCCTCTG	180
CCCCTACAAG	ACACAGATCT	CTCGTCAGCC	CCAAAGCCTG	TGGCTGCAGC	CACGCTGTG	240

TCCCAGCAGG	CTGAAGAGGG	CCTCACCTTA	CCCCAGGACT	CCGCTATGAC	ACCGCCTCTG	300
CCCCTACAAG	ACACAGATCT	CTCGTCAGCC	CCAAAGCCTG	TGGCTGCAGC	CACGCTTGTC	360
TCCCAGCAGG	CTGAAGAGGG	CCTCACCTTA	CCCCAGGACT	CCGCTATGAC	ACTCGAG	417

(2) INFORMATION FOR SEQ ID NO:1186:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 260 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1186:

GGAAGGGGCT	TTTACAACCT	CCTTTGTTT	CCAGGCGTTA	GTATCTCTGC	TTGGTATAAG	60
ATACCAGTAT	TCCTAGGAAA	GGCCTTGAAA	AGAGGGACAG	ATACAAGCCT	CTTCTGAAAA	120
ATCTATGCTT	TTCTTACCTC	TACCAAGTAA	TAGCAAACAT	GAAAAATGTA	AAGATCTTTA	180
CAACATTTGT	CTCTGTACAT	ATAAAACGTT	TAAACACATG	CGCAAAGATG	GAGCAAAATA	240
TCATAGAAAA	TAATCTCGAG					260

(2) INFORMATION FOR SEQ ID NO:1187:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 337 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1187:

GAATTCCGCC	TTCATGGCCT	ACAAGGAAAT	GCCCAAGGAA	AAACGTGAGC	TTCAGTTTCG	60
GCGAAAGGTC	TTAGCAGTCA	CAGACTCACC	TGCCAGGAAG	GGCAAGGACT	CTCCCTCTAA	120
GCAGAGCCCT	GGGGAGTCCA	CGAAGAAGCA	GGATGGCCTA	GTCCAGATTG	CACCAAACCT	180
GACTGTGATC	CAGTTCATTA	AAGTCTTCCC	CAGGGTGCTG	CTGCAGACCC	TACGCCACCC	240
CATCTTCCTG	CTGGTGGTCC	TGTCCAGGT	ATGCTTGTC	TCCATGGCTG	CGGGCATGGC	300
CACCTTCCTG	CCCAAGTTCC	TGGAGCGCCA	GCTCGAG			337

(2) INFORMATION FOR SEQ ID NO:1188:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 537 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1188:

GAATTGGCCT	TCATGGCCTA	CGAGGCGTCA	CTGATCTTAA	CGAGACTTCC	AAATCGTCTC	60
AGCAGGGGCT	CCAGACTTCC	CCAGCAGGCG	GCAGGTTTCC	TGTCATGCTT	TGCGCTTCCT	120
TCTCATATAC	ACCAAGTGCTA	GAGTTCATCA	TGTGTCAAAA	TTGTATCTTG	CTTCTTGTTT	180
TCAAGATGAT	CTAATAGTTG	TCTTATCTCA	GCATCATACT	CCACCCATTG	TGGGACAATT	240
CTGGCAGCAG	CTTTTAGTTT	GGATTCTTTT	GTTTGGGAT	TATTGCACAG	ATCAATTGTT	300
TTGGCCCTCC	TTGGACTAAC	CACATACAAA	TATGAATCTG	GCTGCAAGAA	CAGGATATCC	360

AGGTAAGTAG AGAGTGGGCA TTGATAAAAA TATCTGGTGG AGAAGCCTAG GATTTCAACT	420
TTTTGTGAGA GGATTCCTGT TGGGACAGCT TTACCAGAAA AGAATAATAG CGGATATGTT	480
CATCCAACT AAGAACTTTC ATGCATCTTG CATTGTTACA TAGCCTGTGG ACTCGAG	537

(2) INFORMATION FOR SEQ ID NO:1189:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 65 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1189:

GAATTCGGCC TTCGTGGCCT AATTGAATTC TAGACCTGCC TCGAGGATTC AATTAGGCCA	60
TCGAG	65

(2) INFORMATION FOR SEQ ID NO:1190:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 398 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1190:

GAATTCGGCT TCATGGCCTA ACTTTATGTC ATAAAACTGA TTTAAATAAT CTTGAAATGG	60
CCATTAAGGA AGATCAGATT GCAGATAACT TTCAAGGAAT ATCAGGTCCT AAAGAAGACA	120
GCACAAGTAT AAAAGGTAAT TCAGACCAGG ATTCTTTTCT TCATGAGAAT TCGTTACACC	180
AAGAAGAGAG TCAAAAAGAA AATATGCCTT GTGGGGAAAC AGCAGAATT AAACAAAAGC	240
AAAGTGTTAA CAAAGGAAAA CAAGGAAAGG AGCAAAATCA GGAATCAGAG ACAGAGGCAG	300
AAGAGCTACG CAAACTTTGG AAAACCCATA CTATGCAACA AACTAAACAG CAAAGGGAAA	360
ATATTCAACA AGTGTCAACA AAAGAAGCTA AACTCGAG	398

(2) INFORMATION FOR SEQ ID NO:1191:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 231 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1191:

GAATTCGGCC TTCATGGCCT AGCCATTGTT TATACATTAT TGCTGTCAGT ATTCACCAAG	60
ATGGTGCTAT TACCTGTTGT GGGGCAATTT TCCTTGTCAT TTCTACATAT CTTGGAACAG	120
CTTTTGCTCT TATATTTTCA AGAATGTTCT AAAGCAGACA GCCTTGGAGG AGAGACAGAT	180
AGTGACTCCC TCCAGGGAAA AAGTCGGATT TGTGTGCTCC CCTGCCTCGA G	231

(2) INFORMATION FOR SEQ ID NO:1192:

- (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 262 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1192:

GAATTCGGCC TTCATGGCCT AACTAACC	60
GCGGTACGAG CTCCGAGCAG ATCTGGAGGA	120
GACCTCAGAA GAAACAATAC GCATTACTC	180
GGCTGTTTTA GGGGCATGCT TTTATGCAAT	240
CATGAAAAAG GAAATCCTCG AG	262

(2) INFORMATION FOR SEQ ID NO:1193:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 381 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1193:

GAATTCGGCC TTCATGGCCT AGAGGAAATT	60
TTCCAACGAA CCTGAATGAG CCCTGGTGTG	120
CCTGATCTCT GCTTTTCATT AGTAATGAAT	180
CAGTACAGTG AATGTAATTG CCACATCCAG	240
GCAGAGAAGG AAGCAGCCCT TGTGCAGCAA	300
GCTCGGGCTG AGAAGAAAGC GTTAAAAAAG	360
GGAGCAGATG ATGGACTCGA G	381

(2) INFORMATION FOR SEQ ID NO:1194:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 294 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1194:

GCGATTGAAT TCTAGACCTG CCTCTTTAC	60
TTTCATTG TGGTACTGGT GCGCATTCA	120
GGAGCAGTAA GAATGACAAC ACTTGGTCTC	180
CTAGTGCTGG CTTGGTGGCT GAGGGAACAA	240
GTGGAGTGGG AAGAGAGGAC AGATTGGGGA	294

(2) INFORMATION FOR SEQ ID NO:1195:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 262 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1195:

```
GCGATTGAAG TCATTGCCAC GCCTACTAGT TTGCACTAAA GGAAAGTCAG TTTGGTATGA      60
ATTACAATGG CCAACGTTAC ATTCTCCTCC GTTTGTGTTT TTTTITTTAA TCTCAATTTT      120
TCTTACTTTT CTTATTCCCC CTATGCTGAT GCCAATCAGT TTCTTTTGGG AAAGTTTAA      180
CAGATCGGTT TTATGTTTTG AAGTACAGCA AGTATTTTCAT CCTCTCTTTA AAATACAAAA      240
CCCAGAAACC CAGGAGCTCG AG                                         262
```

(2) INFORMATION FOR SEQ ID NO:1196:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 266 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1196:

```
GAATTCGGCT TCATGGCCTA GACCGTCTCA AAGAAAACAC ATATACCTTT TGCTCAGATT      60
ATTGTTAAAT TTTACCTCAT TTACTTTATC AATTGCTCTT TCTCTATTTA TGTGTATCAG      120
ATTATTGTTA AATGTTACCT TATTTGCCTT ATCAATTGCT CTCCTTATGT ATGTTTGTGT      180
GTACTGTGTC ACATGCAAAT GCACACAAAT ATATGTTTCT GAATTTTTTG AGAGTAGATT      240
GCATACATTA TGGGACCTGC CTCGAG                                         262
```

(2) INFORMATION FOR SEQ ID NO:1197:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 232 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1197:

```
GAATTCGGCC TTCATGGCCT AAGAAACACT TTTAAAAATC TTTCCTAGT TATTTTGTAC      60
ATAGATAAGA TAGTTGATTC CCAGCTTTTA TCTGTAAAGT TGTCAATAAT GGAATTAACT      120
TCGGTGATTC TGTGTATATA AACATTGTTA TATTTTATAG TGTGTGCGGA TTTTAGGCAA      180
ACAAGAAAT ATTAGAGTGA TGCAATTGGC TTTGTTCCAG GGGATGCTCG AG                                         232
```

(2) INFORMATION FOR SEQ ID NO:1198:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 302 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1198:

GACCTTTACC ACTAAGTGGA GCCAACTTTA GCACCTTGCT AATGAATCTG GGTCTGAGA	60
ATTGTGCAAC ACTGCTGCTC TTTGTTTTAC TTGAGAGTAA AATTCTGCTG CATTCTCTTA	120
GGCCAGCTGT CTTGACTGGG GTAGCTGAAG CTGTTGTAGC TATGATCTTT CCATTTCAGT	180
GGCAATGCCC ATATATTCCC CTTTGTCTC TTTCACTGGC TGCAGTGCTT AGTGCACCTT	240
TACCAATTTAT AGTTGGAGTT GACTCAAGGT ATTTTGATCT TCATGACCCA CCAAGGCTCG	300
AG	302

(2) INFORMATION FOR SEQ ID NO:1199:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 231 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1199:

GCCACTGCTC CTGGCCAGGA CTCTCTTATT AGGTTTGACA TTTCAAGAGT TTAGAAATTA	60
CCTTCCAGAA TTCACAGGTA AAAGCCAGAC CTCTCCTTGG TGAAGATACA ATTCTTTACA	120
ATTTTACAAT AGTTAAGTAT ATTTTATCAG TCTATATTGG CTGTTTAGTT GACAAACCGT	180
TAAAAATTGG TGACAGTCCA GATGTGGTCA CTCATGCCTC TAATCCTCGA G	231

(2) INFORMATION FOR SEQ ID NO:1200:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 235 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1200:

GAATTCTAGG CTGACCCAG CCCCCATGGC TTCAGAAGAG CTACAGAAAG ATCTAGAAGA	60
GGTAAAGGTG TTGCTGGAAA AGGCTACTAG GAAAAGAGTA CGTGATGCCC TTACAGCTGA	120
AAAATCCAAG ATTGAGACAG AAATCAAGAA CAAGATGCAA CAGAAATCAC AGAAGAAAGC	180
AGAACTTCTT GATAATGAAA AACCAGCTGC TGTGGTTGCT CCCATCACTC TCGAG	235

(2) INFORMATION FOR SEQ ID NO:1201:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 119 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1201:

GAATGAGAGG TCAGAGTATT CCATTGCACA CGCACCTGG GGCTGACAGA CTTGTGCCCC	60
CTAGCCTTCA TGCATGCCCA AGCACTGGCA GCTTTGCAGC CCCTGCCCCA CGACTCGAG	119

(2) INFORMATION FOR SEQ ID NO:1202:

- (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 366 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1202:

GATTGAATTC TAGACCTGCC TCGAGATTCT TTGAGCACTT TCCCCCATCC CCAGGGCCAC	60
AGATCCCCTT CTTACTTGT TGGGGGGAGG TCTGGAGCAC CTCGCCAATG CCCTTCCCCC	120
ATCCGGCTGG GTCCTTCCAG TTATTTATTT GTGTATTAT TTATTTATCT ATTTATTATT	180
CTATTTAATC TCTTGGCCTC ACCCAGGGAC CGTCTGGCTT CCCCAGCTGG ACTGGGAGGT	240
CAGGAAGCCA GGCAAGGAGA GGGACAGCAC AGGCCACAGA GGGCTGCCCC CACCACACAC	300
ACCCCGCGT CTCGGGAGAA ACCCACCCTC TTCAGAGCCT GCACTCGCTA AGGAAGGGGA	360
CTCGAG	366

(2) INFORMATION FOR SEQ ID NO:1203:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 342 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1203:

GGTGAGATGG AAAAGGAGTT TCCTGAGCTT ATCCGAAGTG TTGGTTTACT TACGGTAGCT	60
GCTGACTCTA TCTCTACCA TGGCAGTGAA GCAGTTACTG AGGAGGTATC TCAAGTATCT	120
CTCTCAGTAG ACCGACAAAG TGGATGTGAG GAAGACAATG CTTCTGCAGT CGAAGAGCAA	180
CCAGGCTTAA CACTGGGGGT GTCATCATCT TCAGGAGAAG CTCTGACAAA TGCTGTTCAA	240
CCCTCCTCTG AGACTGTGCA GCAAGAATCC AGTTCCTCCT CCCATCATGA TGCAAAGAAT	300
CAGCAGCCTG TTCCTTGTA AAATGCAACC CCCAACTCG AG	342

(2) INFORMATION FOR SEQ ID NO:1204:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 645 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1204:

GAATTCGGCT TCATGGCCTA CGTCTTTCTA ACTATCTATG GGGTGGAGCT GTTCCTGAAG	60
GTTGCCGGCC TGGGCCCTGT GGAGTACTTG TCTTCCGGAT GGAACCTGTT TGACTTCTCC	120
GTGACAGTGT TCGCCTTCTT GGGACTGCTG GCGCTGGCCC TCAACATGGA GCCCTTCTAT	180
TTCATCGTGG TCCTGCGCCC CCTCCAGCTG CTGAGGTTGT TTAAGTTGAA GGAGCGCTAC	240
CGCAACGTGC TGGACACCAT GTTCGAGCTG CTGCCCCGGA TGGCCAGCCT GGGCCTCACC	300
CTGCTCATCT TTTACTACTC CTTGCGCATC GTGGGCATGG AGTTCTTCTG CGGGATCGTC	360
TTCCCCAACT GCTGCAACAC GAGTACAGTG GCAGATGCCT ACCGCTGGCG CAACCACACC	420
GTGGGCAACA GGACCGTGGT GGAGGAAGGC TACTATTATC TCAATAATTT TGACAACATC	480
CTCAACAGCT TTGTGACCCT GTTTGAGCTC ACAGTTGTCA ACAACTGGTA CATCATCATG	540
GAAGGCGTCA CCTCTCAGAC CTCCCACTGG AGCCGCCTCT ACTTCATGAC CTTTACATT	600
GTGACCATGG TGGTGATGAC GATCATTGTC GCCTTATCC TCGAG	645

(2) INFORMATION FOR SEQ ID NO:1205:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 336 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1205:

```

GAATTCGGCC TTCATGGCCT ACAGTACACA AGTGCTAGCC CTAGCAGCTC GCGATGTGCT      60
TCAGCAGAGC AGACGCTGCG GATAACTACC CTTTGGAAAC ATGTCAACAG AGGAAACTTT      120
TTCCTCACTT CCATCCCCCG AATTGATTG GGAACAAGTT TGTCCCTCTT AGGGGATCAC      180
CCCACAGAGG GCCTGGGTGT TATTTTCAG ATGGATATGG CTGGCATAC GACTTATCTA      240
AGATCCCAAC CAGTATAAAA GGATATACTT TGGGAGCCAG AACAGCTGTG AGGTTTAAGC      300
CAATACAGAA GGAAATGACA CCTCATGCAG GCAGGT      336

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(2) INFORMATION FOR SEQ ID NO:1206:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 309 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1206:

```

GGAAATCTG AACAAACAAC CGAATAAGCA GTGAAGAAA TCACAAACAT CTACAAATCC      60
AAAAGCTGCT CTCAGTCTA AGATAGTTGC TGAATTTGCA TCTCAGGCC TAATTGAAGA      120
GCTGTTGCTA TACAAGCGCT CAGAAGATCA GATAGAACTG AAGGAAAAGC AGTTGTCAAC      180
TATGAGGGTG GATGTGTGCA GCACAGAAAC TCTCAAATGC TTAAGAGATA AAACAGGTGG      240
GAAGAAGTTC TCCAAAGAAT TTGAAGAGC AAGCTCCAAG CTGGAAGAAT TTGTGAATGG      300
ATCACTCGA      309

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(2) INFORMATION FOR SEQ ID NO:1207:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 341 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1207:

```

GAATTCGGCC TTCATGGCCT ACAGCTTTTG AGCGGAAACC TGAAAGAAGG TTGCAGTAT      60
CTTCAGAGTC TGAATTTTGA GCGGATAGTG ATGAGCCAGC TAAATCCCCT GAAGATTGTC      120
CTGCCCTCAG TGGTTAACTT TTTTGCTGCA ATCACAATA AGTACCAGCT CGTCTTCTGC      180
TACACCATCA TTGAGAGGAA CAATCGCCAG ATGCTGCCAG TCATTAGGAG TACCGCTGGA      240
GGAGACTCAG TGCAGATCTG CACAAACCG CTGGACACCT TCTCCCCTT TGATCCCCTGT      300
GTGCTGAAGA GGTAGGTACT TTTAAACGTT GACATCTCGA G      341

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(2) INFORMATION FOR SEQ ID NO:1208:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 588 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1208:

```

GAATTCGGCC TTCATGGCCT ANCGAGCGGC AGGTGTGCAC AGAGGTNCTC CACTTTGTNT      60
TCTGAACTCG CGGTCAGGAT GGTTTTCTCT GTCAGGCAGT GTGGCCATGT TGGCAGAACT      120
GAAGAAGTTT TACTGACGTT CAAGATATTC CTTGTCATCA TTTGTCTTCA TGTCTNCTG      180
GTAACATCCC TGAAGAAGA TACTGATAAT TCCAGTTTGT CACCACCACC TGCTAAATTA      240
TCTGTTGTCA GTTTTGCCCC CTCCTCCAAT GGTACTCCAG AGGTTGAAAC AACAAGCCTC      300
AATGATGTTA CTTTAAGCTT ACTCCCTTCA AACGAAACAG AAAAACTAA AATCACTATA      360
GTAAAAACCT TCAATGCATC AGGCGTCAAA CCCAGAGAG ATATCTGCAA TTTGTCTATCT      420
ATTTGCAATG ACTCAGCATT TTTTAGAGGT GAGATCATGT TTCAATATGA TAAAGAAAGC      480
ACTGTTCCCC AGAATCAACA TATAACGAAT GGCACCTTAA CTGGAGTCCT GTCTCTAAGT      540
GAATTAAAC GCTCAGAGCT CAACAAAACC CTGCAAAACC TACTCGAG      588

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(2) INFORMATION FOR SEQ ID NO:1209:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 418 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1209:

```

GAATTCGGCC TTCATGGCCT ACAAGGATAG AATTCATTCC ACCTATATGT ACTTAGCAGG      60
GAGTATTGGT TTAACAGCTT TGTCTGCCAT AGCAATCAGC AGAACGCCTG TTCTCATGAA      120
CTTCATGATG AGAGGCTCTT GGGTGACAAT TGGTGTGACC TTTGCAGCCA TGGTTGGAGC      180
TGAATGCTG GTACGATCAA TACCATATGA CCAGAGCCCA GGCCCAAAGC ATCTTGCTTG      240
GTGCTACAT TCTGGTGTGA TGGGTGCAGT GGTGGCTCCT CTGACAATAT TAGGGGGTCC      300
TCTTCTCATC AGAGCTGCAT GGTACACAGC TGGCATTGTG GGAGGCCTCT CCACTGTGGC      360
CATGTGTGCG CCCAGTGAAA AGTTTCTGAA CATGGGTGCA CCCAGGGAG TGCTCGAG      418

```

(2) INFORMATION FOR SEQ ID NO:1210:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 379 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1210:

```

GAATTCGGCC TTCATGGCCT AGGTTGCAAC TGCCACGCAG CAACTGCCAC GCAGAAAAAG      60
GAGGGGTTGA AAAGGGAGTA GCTTCTGATA TTCAGAAAGCT ATTGGAAGAG ATGCTCAAAG      120
AAGAAAAAAT TACCATAATC CAATAAAGAA GAAGACCTGA GATCCAGGAA GCAGATGATC      180
TGAAGTGCAG AGAAAGTTCA GGAAAGTTCC CTCATTCTATG ATGATGGGAA ATAACAGTAA      240
ATTCTGTACA GCAGTCTTGG ACAACAACCA ATCTAAACTG GCACAGTGCA GAGGCAATCA      300
ACAGAGAACA TAATATTGAT AGAATGCCTG ACGCTTTTGA TTGTATTAC AGGAAACATA      360

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AACCAATTGGA AAACCTCGAG

379

(2) INFORMATION FOR SEQ ID NO:1211:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 380 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1211:

GAATTCGGCC	TTCATGGCCT	AGAAACAGGG	TATTATTTAT	CCTCTTAGCA	TATGTTTTGT	60
AATGATTCTG	TTACATCAGA	GCTTCTGTTG	ATGAGTGCCA	CTAAAGTGAG	ATTGTTGATG	120
AGGATTGGCC	TTATTTTTTT	GTGGTTCTAT	TCAATACTTG	CCACAGCATT	TATTTTCTAA	180
AACATTTCTA	CGGTCTATAC	TTATCAGTGT	CTGATCACAT	GCAGGCACTG	GTCAAGGTGG	240
AGCATGGTGG	AGGCGTTCTT	ACTGATACAA	ACTCGTGCCT	TCTCTTGGAC	ACAAGGAGCC	300
CATGTTCTGG	TTAACTCTGT	GTTCATTAT	TTCACTTGTC	ATGCATCGCC	TCTATCTTCT	360
CCCTTTATTG	CGTCCTCGAG					380

(2) INFORMATION FOR SEQ ID NO:1212:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 430 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1212:

GAATTCGGCC	TTCATGGCCT	AGTGAAGGGT	ATTGGTGGTG	TTTTTCCCC	TTTACCTCTC	60
ATTTGGGCAT	TTTAAATAG	GAGGCCAACT	TCATTTACTC	CTGTTTAGTA	AATCTAAATG	120
AGTGTAAGTT	TTAAATTAGA	TTTTTTCCCA	AAACCCCTCA	GAAGGTCTAG	TATTAGGGCA	180
GTTGATAAGT	AAGTGGAAGC	ACCTTGGGCA	GGACCCAGTG	ACCTGTCCCT	TTACTTATTA	240
CAGCACCTGC	ACGGGAAGCA	GATCTGGAGG	ATGAAATTTA	ACCTGTTACA	GTGTGTGTAT	300
GTTTTAGGGT	GTGTGTTTTT	CGAATACTGT	GGGGAGTTCC	CTTTTTCCTT	CTCCCATGAT	360
GGATTCTTTT	GTCTTTCTAG	AGATACCATA	GGAGGATATC	TGGATTTTTC	ACCTAAGGCA	420
GTGTCTCGAG						430

(2) INFORMATION FOR SEQ ID NO:1213:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 437 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1213:

CTCGAGTCTC	TCCTGTTAAT	CTCCTATTTA	TAAAAGGATC	ATGAGGCTGC	CAAGTGCTAA	60
AAATGGAGAT	GGTCTAGTAA	CTAGAAAAC	CCCCACCCCA	GGGAGCACAC	CTACGTATGT	120
CCCTACAACC	TAATAATGTG	ATGTGTTTTG	GAACACAGAC	ATTAGAACTT	CATGAAGTTT	180
TAACTGTTGA	TTCTTTCCCA	AGCATCATCA	AGTTATGATT	TAGGCAATGT	ATGATTGAAA	240

TGCATTCATT CATCACGCAT AGGCACAATC ACAGAAATAT TGCACAAAAT ATGTCCCTGA	300
CTGAACTGA GAGGTACAAA AACGTATTTT ACTCTTCGTA AAGAAGTTTG TGAGGAAATA	360
CAACTCTGCG ATCGTATAGA CATGTTTCCT GATAATACAC TGACATTCAC AAACAGTAGG	420
CCATGAAGGC CGAATTC	437

(2) INFORMATION FOR SEQ ID NO:1214:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 295 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1214:

GAATTCGGCC TTCATGGCCT AAAAAGAAAT GATGTTTTCT CTCCAACAGT GTGTTTTTAT	60
TTCTTTCATC TACCTGTCCA GTAATCATT TAAAAAGAA AATAGCATTA GTTACTGCCT	120
GTGTGATGTG GCCCCGGCTT ATCTGCACTC TCCCTCCTGT TTAAGTGTCC AGCCACCTCA	180
GCTTTTTCTC TGTTCTCTA GCATGGCAAG CTATTCTCTG CCTCATGACT CTTTCGCATG	240
GTGTTTTCAG ATTTCTCTG TAGCACTCTG CAGCATTGT CCACCTAAAC TCGAG	295

(2) INFORMATION FOR SEQ ID NO:1215:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 265 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1215:

GACCTGCCGC GAGTGTGTT GATAGCTTGC TCAAGATCAC ACAGCTAGTA GGTAGTGAGG	60
CTAGGATTTA GACTTAAGTA GTTGGTTGTA GAGTCCACGT GTTAAACCAT TACACTACTT	120
TGATAACAAT ATCATTATTA TTATTATCTT TTTTTTTTTT TTGATACAAA GTCTCACTTT	180
GTTGCCCAGG CTGGAGTGCA GTGGCATAAT CATGGCTCAC TGCAGCCTCG AACTCCTGGG	240
CTCAAGGGAT CCCCCACTC TCGAG	265

(2) INFORMATION FOR SEQ ID NO:1216:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 344 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1216:

GAATTCGGCC TTCATGGCCT AAAAGAAGGA GCGCGAGAGA AAAAAGCGAG ATGAAGAAAA	60
AGCGAAACTG CGGAAGCTGA AAGAAAAAGA AGAGTTAGAA ACAGGTAAAA AGGATCAGAG	120
TAAACAAAAG GAATCTCAAA GGAAATTTGA AGAAGAAACT GTAAAATCCA AAGTGACTGT	180
TGATACTGGA GTAATTCCTG CCTCTGAAGA GAAAGCAGAG ACTCCACAG CTGCAGAAGA	240
TGACAAATGAA GGAGACAAAA AGAAGAAAGA TAAGAAGAAA AAGAAAGGAG AAAAGGAAGA	300
AAAAGAGAAA GAGAAGAAAA AAGGACCTAG CAATGCCACT CGAG	344

(2) INFORMATION FOR SEQ ID NO:1217:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 371 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1217:

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GAATTCGGCC TTCATGGCCT AGCCATTATT AAGACCTGTG ACAAAAACTA TAGACATGAT      60
GCAGTGAAGA TTCTGAAACT CAAGCCTGTG CTGCAGAGAA GTCTCACTCA CCCTCCTACC      120
ATAGCCCCAG AGGGGTCCAG ACCCCAGGGT GGTTTGCCCA GCAGCAAGCT AGACAGTGGA      180
TTTGCCAAGA CATCTGTTGC TGCTTCTCTA TACCACACAC CCTCTGACTC CAAGGAAATT      240
ACTCTTACTG TTAATTCAAA GGACCCCTGAA AGACCTCCTG TTCATGACCA ACTTCAGGAC      300
CCACGACTGC TGAAGAGGAT GGGCATTGAG GTCAAAGGAG GAATATTCCT TTGGGATCCA      360
CAACCCCTCGA G

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(2) INFORMATION FOR SEQ ID NO:1218:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 349 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1218:

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GAATTCTAGA CTCCCGCGCG TACTCGGCCG CCTGAGCGAT ACTAAATGT CTGATGATGC      60
TGGTGACACC TTAGCCACTG GAGACAAAGC AGAAGTTACT GAGATGCCTA ATAGTGATTTC      120
TTTACCTGAG GATGCAGAAG TGCATTGTGA TTCAGCTGCA GTTTCACATG AGCCAACACC      180
AGCTGACCCC AGAGGGGAGG GGCATGAAAA TGCAGCTGTG CAGGGTGCGG GGGCTGCCGC      240
CATTGGGCCC CCTGTGCAGC CTCAGGATGC CAACGCCCTG GAGCCCCCTC TCAATGGAGA      300
CGTGACTGAG GATACACTTG CTGAATGTAT TGATTCTCTG AGCCTCGAG

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(2) INFORMATION FOR SEQ ID NO:1219:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 392 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1219:

```

GAATTCTAGA CCTGCCTCTC CTGTCACCTC CTGTGTGTTT CTCTGTGACC GGCCTCTGTT      60
CCCACCACCC TTTTGGAAGT GCTGTCCCTGA TGGTCACCAG TGCTTTCCTA ATAGCCAAAT      120
TCAGTGCCCT GTCCTCAAGC TCCCCGAAT TCTTTGGCCA CACAGATCAA CCTCTAAGTC      180
CTGGGAACTC CCTCCTTGT GATTTTGAGG CGCTGTGTGC TGCAGGCTCT GCTTTTCCCT      240
CCCATCACCC CATGGTTCTT CCTTCTCCTC TGACCCCTCC CTCTTCCATT TCTCCACAG      300
CTCTGTCCAC AGCCACAATG TCCATAGGAG CCTGCCACAC CCTTTATCCA ACTGCAGCCT      360
CAACCCACCT GCAAAGGACC CCTGAACTCG AG

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(2) INFORMATION FOR SEQ ID NO:1220:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 598 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1220:

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GCAAGCTACT TCTTCAACAG CTGTATCTGC TTCAAAGCCG ACTGCCTCTC CTTCAAGCAT      60
TGCAGCAAAC AATTGTACTG TGAATACGTC ATCAATTGCA ACGTCTTCAA TGAAGGGTCT      120
TACGACTACA GGAAACTCGT CTCTTAATAG CACATCTAAC ACTAAAGTAT CAGCAGTGCC      180
TACAAATATG GCTGCCAAGA AAAACATCTA CCCCCAAAAT AAATTTTGTT GGTGGTAAAT      240
AGCTGCAGTC NACAGGAAAT AAAGCAGGAG ACCTTAAAAG GGACCCGAAT GTGTTAAAAG      300
TAATCCTGTC ATTTCTGCTG TGCAGATTCC TGAAGTAAAG CAAGACACAG TGTCAGAACC      360
AGTCACACCT GCATCTCTTG CTGCTTTACA GAGTGATGTG CAGCCAGTGG GCCATGATTA      420
TGTGGAAGAG GTACGAAATG ATGAAGGAAA AGTAATTCGG TTCCATTGTA AATTATGCGA      480
GTGCAGCTTT AATGATCCCA ATGCTAAGGA GATGCACTTA AAAGGGCGAA GACACAGACT      540
TCAATATAAA AAAAAAGTAA ATCCAGATTT GCAAGTAGAA GTAAAGCCAA TACTCGAG      598

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(2) INFORMATION FOR SEQ ID NO:1221:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 338 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1221:

```

GAATTCGGCC TTCATGGCCT AGAGGAGTCC TGTCAGTTCG TTCTCTGCTG TGTCCCAAG      60
ACCATGAATC ATGGCTGGCA TGTAGTAGGC ATTTAATAAT ATATGTTCAA CAAGTATTTG      120
GCAGTCTTGG AGGGCAGAAA AGGAGGTGGG GAAGATTTTT AAATAACATT TTTTAAAAAG      180
TCACATTGTC CTACAATACC GATTTTTCTT GCATATTTAG GAAATTGAGG GTTTTTTTCT      240
AAAACATGCG GACATATGGG AAATAGGATG CAACATTGTC ACTAATGTTT CAGACACAGT      300
TAGAGGTTTC CAAGAGATTT TGCCTGGGT CACTCGAG      338

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(2) INFORMATION FOR SEQ ID NO:1222:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 335 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1222:

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GCTCGAGTGA CATGGAACT GAGGTCTTAG AGACACGTGT AATGGAGAGG AGAGGAATGG      60
AGACCTGTGC GATGGAAACC AGAGGGATGG AAGCAAGGGG CATGGATGCA AGAGGATTGG      120
AGATGAGGGG CCTGTCCCC AGTTCAAGAG GCCCTATGAC TGGTGAATT CAGGGTCCTG      180
GTCCCATTA TATAGGGGCA GGTGGCCCTC CTCAGGAGCC CAGACAGGTC CCAGGCATTT      240
CAGGGGTGGG GAATCCTGGA GCTGGTATGC AGGGTACAGG CATACAAGGA ACAGGCATGC      300

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AGGGAGCAGG CATAAAGGA GGAAAAATGC TCGAG

335

(2) INFORMATION FOR SEQ ID NO:1223:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 534 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1223:

GAATTCGGCC TTCATGGCCT AGGTACAGAC TGAACCCAGG AACCCGGGTA TCTGCGTCCT	60
GAGTCCCAGC GCCCACCAGG ACTGGGGCCT CTCACATCT ACTCTGAGGA CAGAATCTAT	120
TGGCAGAGTC TTCCTTTTGG TTTGGGATGC TGGGTTTGAG AACATGCCGG GAACCAAGAG	180
TCGTGACTAA TCCAATTTTG AGCGCTTGAG GACCAAGTGG AAAGAAACTC AAGCAGATTT	240
AAAGTGACCA ATGTCTGGTT ATGCCCTTGA GCCCTGCAG AAGCAAACAA TAATTTTGTG	300
TGTGTGTGGA CAAATACATT TGTATTCCAG ATCTCACAGA ATTCCTACA CAAAGAAATT	360
TGCAAGGAAA ATGGACATTG CACCCTAAAA ATTAACAAGG AAAGAAGGTA CCAGGAGCAA	420
CAACTCATTA ACAGGAACAG AAACAATATT GCAAATATT CAGATGCAAA GTGTATCCGA	480
CTTATAATAC AACTGTCCCT ACTGTGTCTA AAGAAATGAA AGGCAATCCT CGAG	534

(2) INFORMATION FOR SEQ ID NO:1224:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 354 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1224:

TCACGAATGG CCCACAGGGA TCAGGAATGG TATGATGCTG AAATTGCCAG AAAACTGCAA	60
GAAGAAGAAC TTTTGGCTAC CCAGGTGGAC ATGAGAGCCG CTCAAGTAGC TCAAGATGAA	120
GAAATCGCTC GACTTCTAAT GGCTGAAGAA AAGAAAGCTT ACAAAAAGC CAAGGAGCGG	180
GAGAAATCAT CTTTGGACAA AAGAAAGCAA GACCCCGAGT GGAAGCCAAA AACAGCTAAA	240
GCAGCAAATT CCAAGTCAAA AGAGAGTGAT GAACCTCACC ATTCTAAGAA TGAAGGCCA	300
GCACGCCAC CACCACCTAT CATGACAGAT GGTGAAGATG CGGATTCTCT CGAG	354

(2) INFORMATION FOR SEQ ID NO:1225:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 488 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1225:

GCAACAAAAC AAAACAAAAC ACACTTATGG TAACCCATTC TGTGAGGAG TCACAAACTC	60
GAATAAAGCG CCTCATGACC TTAACTGGT TCTGTGGCAG TGAGATCATC ATCCTTATGC	120
TGGCTCACCT AGTGTCTCTC TCTCTCTCCC GTTTTCTCTC TCCCTCTCTT ATCCCTTGA	180
CTCTCCCCAC TTCTCATCTT CTCCTTAGAT TATGTGGTAG CTATCCTCAA GAGCTCATAG	240

TGCCTGCCTG	GATCACTGAC	AAAGAACTGG	AAAGTGTATC	AAGTTTCAGG	TCCTGGAAGC	300
GCATCCCTGC	CGTCATCTAC	AGGCACCAGA	GCAATGGAGC	TGTCATTGCC	CGCTGTGGAC	360
AGCCAGAGGT	TAGCTGGTGG	GGCTGGCGAA	ATGCAGATGA	TGAGCATCTG	GTACAGTCAG	420
TAGCCAAAGC	TTGTGCCTCT	GACTCCCGAT	CGAGTGGCAG	CAAGCTGTCA	ACTAGGAAAC	480
GACTCGAG						488

(2) INFORMATION FOR SEQ ID NO:1226:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 328 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1226:

GATCCCCACC	AAAACAGGAA	AAGAAGTGCT	CTCGTCAGG	GCTTGTTTAC	AGTGAGCCTG	60
GCTGGCTCCT	CATGATCTCT	GAGTTTAAAA	TGTGCCAGCA	GATGATTTTA	ACGATCCCAT	120
CAAAAATTGT	TGTCTGGATC	AGTTTCGAGC	TAGCGTTTCC	TTGCAGAGGC	CATTCTTCCT	180
TTTTTGACAA	AAGTTGGGTC	GGCCAGGTGC	AGTGGCTCAT	ACTTGTGATC	CACCTGCCTT	240
GGCTTCCCAA	AGTGCGGGGA	TTCTAGGCAT	GAGCCACCAC	ACCCTGCCAG	AAAAATGGAT	300
TTAAAAAGAG	AATTACAAAG	TACTCGAG				328

(2) INFORMATION FOR SEQ ID NO:1227:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 527 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1227:

GAATTCGGCC	TTCATGGCCT	AAAATTTTTA	AAAAATATTT	ATAATGATAG	TTAGAGAACT	60
GTTTATATGA	GGATCAGACA	TTGTTTCAGC	ACTGGATCTC	CTCTGTCCCC	TCTCTTGCTA	120
CAGCATACAG	CCCAGAGACA	CACATGTAAA	AGTAGATGAT	CTCTGTAAAC	TTCAGCTGCA	180
TTTCTGTATG	TGTAGGATTG	TCCTANTATC	AGATATCCTT	TGAGAAAGAG	TTGGAGAGGC	240
ATGGAAGGAA	GCATATTCCT	GACCTCCCCC	CTTTTAGCT	AAAGATACAA	ATTCAGAGCT	300
GTTTGAAAAG	GGCTTAGAAT	AATATTAATT	AAACATATTC	TATAATACAA	AGAGAAGTAC	360
TTTTTTAAAA	TACATTTATT	TTTCTTTCTT	TTTTAGCAGG	CATTTCTGAC	AGAAAATCTT	420
TAGGGCCAAT	TAGAGTTTCT	TTCTGACTTT	TAATTGCCCT	CTGCCTTTTG	GGAAAGTGTT	480
GAAAAAAGCT	CTGAAAAAAA	ATATGCTGGT	CAAGGTCGCA	ACTCGAG		527

(2) INFORMATION FOR SEQ ID NO:1228:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 278 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1228:

GAATTCGGCC	TTCATGGCCT	AAGAAAACAG	CCTAGAATTA	AACCTCCAAG	ATGAGTGTGA	60
GATGAAGCCT	TTCCACCTAT	CCCAACAAGG	TTTAAAAAAA	ATAAAAACTA	GAATGGGGCT	120
ACTACACAAC	AGCCCTTTGC	CCCACCCAAG	GCTCATTCCC	TAGAGGCAAG	TGTACGAGTT	180
TATTTCTCCT	TGAAATTATT	TCCATATCTC	CAAAATAGTG	TTATACCACT	CAAGGCAGAG	240
ATAGCAATTT	GCCTACCCAG	TATACATTTC	CCCTCGAG			278

(2) INFORMATION FOR SEQ ID NO:1229:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 603 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1229:

GAATTCGGCC	TTCATGGCCT	AGCCACCTTG	AAGCTCTCAA	ATATCACTGT	TGTGAATACA	60
GAGAGGGAAA	ACCAACTGTA	ACGTGCCACC	CAAATTTTTT	CAGATTAATA	CATCATTCAT	120
CAGACTTCAT	TCGTGATCTC	GAAGAGTGAC	ATCAGTCTTC	CTTGAATAT	GAAGAGAATT	180
TCCTTGGTTC	TTCTTTTGCA	TTTCTATTTG	ATTATTTTAA	TTTATTTTAA	TTTATGTTT	240
TTTGGTACAG	AAAGCTCATT	ACTAGTCCTG	TCCAGCAACG	TGCCTCTCCT	GGCCCTAGAG	300
TTCTTGGAAA	TAGCCCAGGC	CAAAGAGAAG	GCCTTTCTCC	CCATGGTCAG	CCACACGTTT	360
CACATGCGCA	CAGAGGAGTC	TGATGCCTCA	CAGGAGGGCG	ATGACCTACC	CAAGTCCTCA	420
GCAAACACCA	GCCATCCCAA	GCAGGATGAC	AGCCCCAAGT	CCTCAGAAGA	AACCATCCAG	480
CCCAAGGAGG	GTGACATCCC	CAAGGCCCCA	GAAGAAACCA	TCCAATCCAA	GAAGGAGGAC	540
CTCCCCAAGT	CCTCGGAAAA	AGCCATCCAG	CCCAAAGAGA	GTAACATCCC	CAGAGCCCTC	600
GAG						603

(2) INFORMATION FOR SEQ ID NO:1230:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 362 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1230:

GAATTCGGCC	TTCATGGCCT	ACCGGGCAGT	TAGGCCCAAG	CGCCGGGTTC	AGGCCTCCAA	60
AAACCCCTG	AAAATGCTGG	CGGCAAGAGA	AGATCTCCTT	CAGGAATACA	CTGAGCAGAG	120
ATTAAACGTT	GCCTTCATGG	AGTCAAAGCG	GATGAAAGTA	GAAAAGATGT	CTTCCAACCTC	180
CAACTTCTCA	GAAGTCACCC	TGGCGGGTTT	AGCCAGTAAA	GAAAACCTCA	GCAACGTCAG	240
CCTGCGGAGC	GTCAACCTGA	CGGAACAGAA	CTCTAACAA	AGCGCCGTGC	CCTACAAGAG	300
GCTGATGCTG	TTGCAGATTA	AAGGAAGAAG	ACATGTGCAG	ACCAGGGTGG	TGGAACCTCG	360
AG						362

(2) INFORMATION FOR SEQ ID NO:1231:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 468 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1231:

GAATTCGGCC	TTCATGGCCT	AGTCCCTGTT	CAATTTCTCT	CAGCCTCAAT	ATCTTTTACT	60
TTAAACTAGG	TAGGGTTACC	AGTTCAATGA	TCGTCTCATT	AAATACTTAC	TATACCTTAG	120
GTACTATATG	AGAAGCTAGG	AAAAGAGTGA	TGAAAAAGAC	ACACCTAGAG	AGGGCATTGG	180
ATTATTAAAT	CAGCAGCTAC	TGTAAAGGTA	TTTAAGTTCT	GTGACAGGCA	GCATTCTGGG	240
TATCACAGGA	ACATCTTACA	AGAATTTCTA	ACTTCAGGAG	GAGGGTTCAG	AGAATTAGCC	300
AGGCCAGGGG	TGAGAGTGTT	CTTCCCGGAA	GAGGGAACAA	TGAAGACCCA	GGAGGAGATA	360
CAGAGTATCT	CGCTGTATTT	AAAATAACCA	GAAATAGATT	TATATATTTA	GTACAGAGGC	420
TGAGGGGAAG	AGAAGTGAGT	GTGAGAAGAT	CAAAAGGAGA	AGCTCGAG		468

(2) INFORMATION FOR SEQ ID NO:1232:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 400 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1232:

GAATTCGGCC	TTCATGGCCT	ACAATCATCT	CAAACAGTTC	CGGGTTGCTG	CCCTTTTGGC	60
TTTCCTAGGT	GCTACAGTAG	CAGGCTGTTT	TCCCCTTTTC	CATAGAGGGG	AATATTCTGC	120
ATCACCCCTT	TGTTTGCCAT	TTCCTACAGG	TGAAACGCCA	TCATTAGGAT	TCACTGTAAC	180
GTTAGTGCTA	TTAAACTCAC	TAGCATTTTT	ATTAATGGCC	GTTATCTACA	CTAAGCTATA	240
CTGCAACTTG	GAAAAAGAGG	ACCTCTCAGA	AAACTCACAA	TCTAGCATGA	TTAAGCATGT	300
CGCTTGGCTA	ATCTTCACCA	ATTGCATCTT	TTTCTGCCCT	GTGGCGTTT	TTTCATTTCG	360
ACCATTGATC	ACTGCAATCT	CTATCAGCCC	CCCACTCGAG			400

(2) INFORMATION FOR SEQ ID NO:1233:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 418 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1233:

GAATTCGGCC	TTCATGGCCT	AGGATATAGA	CCAAACCCAA	ATCCTGTTGG	ACAAGGGATT	60
AGACCACCTA	TGGCTGGATG	CAACAGTTCG	GTAGGCGGCA	TGAGTATGTC	GCCAAACCAA	120
GGCTTACAGA	TGCCGAGCAG	CAGGGCCTAT	GGCTTGGCAG	ACCCTAGCAC	CACAGGGCAG	180
ATGAGTGGAG	CTAGGTATGG	GGGTTCAGT	AACATAGCTT	CATTGACCCC	TGGGCCAGGC	240
ATGCAATCAC	CATCTTCCTA	CCAGAACAAC	AACTATGGGC	TCAACATGAG	TAGCCCCCA	300
CATGGGAGTC	CTGGTCTTGC	CCCAAACCAG	CAGAATATCA	TGATTTCTCC	TCGTAATCGT	360
GGGAGTCCAA	AGATAGCCTC	ACATCAGTTT	TCTCTGTTG	CAGGTGCGCA	CTCTCGAG	418

(2) INFORMATION FOR SEQ ID NO:1234:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 325 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1234:

GAATTCGGCC	TTCATGGCCT	ACGCCTCTTT	AACACATGGG	CCTTTGTGTG	GACACCATCT	60
TTCCCTGAAA	CCTGTCTGCA	TCTTTTCTGT	CCCTTCTAAC	CATCCAGTTT	GTTCTTCCCC	120
AAGATGGGCT	GCCACAAGTT	GCCATTTCCCT	GACTGGTGCA	TGGTTCCAGA	CAGCTCGCGG	180
GCAGACACAG	GGAAGGAATC	TTATCTCGTT	TTTGTTTTTT	TGTGTGTGTT	TTTGTTTTTT	240
TCTTTTGTGT	TGTGGTTGTT	GCTGTGTTT	TGAAACGGAG	TCTCACTCTG	TTGCCAAGGC	300
TGGAGTGCAG	TGGCGCAATC	TCGAG				325

(2) INFORMATION FOR SEQ ID NO:1235:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 395 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1235:

GAATTCGGCC	TTTATGGCCT	AAAAAAAAAA	AAAGAAAGAA	AGAAAATGTT	GGATATAGTA	60
GGTCTGAGCT	TTATGGAGAA	AGAAGGTTTG	AAGTAGCTTC	TGGGATATGG	AAAAAGAACT	120
TATGAGAGAA	ACAGACTTCT	GGGAATCCTT	CAAGGACTAG	AAGAGAACAT	AGATTATGAA	180
AGAATGAGTC	ATTGATCAGT	GTAGTTGTAG	ATTAGAATAG	TTGGACAGTT	AGGATTTGCT	240
AGGCAGAAGA	ATGGAGGAAG	TCACGGCCTA	GGGAGTTAAC	AGTGTTAGGA	GCAAGAGAGG	300
TTTAACTAA	TGAGCCATGG	AGTTTAAGCA	GAGACAATAG	AGAATAAAGT	AAAATAGGAA	360
GAAAAATTTA	AAAAGAAAGT	AGAAAAGTCC	TCGAG			395

(2) INFORMATION FOR SEQ ID NO:1236:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 565 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1236:

GAATTCGGCC	TTCATGGCCT	ACACAATTCC	AAAGAAGGTG	GTGTGCCACT	TCAGTGGGAA	60
GGCCTATGCC	GACGAGGAGC	GGTGGGACCT	TGACAGCTGC	ACCCACTGCT	ACTGCCTGCA	120
GGGCCAGACC	CTCTGCTCGA	CGGTCAGCTG	CCCCCTCTG	CCCTGTGTTG	AGCCCATCAA	180
CGTGGAAGGA	AGTTGCTGCC	CAATGTGTCC	AGAAATGTAT	GTCCCAGAAC	CAACCAATAT	240
ACCCATTGAG	AAGACAAACC	ATCGAGGAGA	GGTTGACCTG	GAGGTTCCCC	TGTGCCCCAC	300
GCCTAGTGAA	AATGATATCG	TCCATCTCCC	TAGAGATATG	GGTCACCTCC	AGGTAGATTA	360
CAGAGATAAC	AGGCTGCACC	CAAGTGAAGA	TTCTTCACTG	GACTCCATTG	CCTCAGTTGT	420
GGTTCCCAT	ATTATATGCC	TCTCTATTAT	AATAGCATTG	CTATTATCA	ATCAGAAGAA	480
ACAGTGGATA	CCACTGCTTT	GCTGGTATCG	AACACCAACT	AAGCCTTCTT	CCTTAAATAA	540
TCAGCTAGTA	TCTGTGACGC	TCGAG				565

(2) INFORMATION FOR SEQ ID NO:1237:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 298 base pairs
- (B) TYPE: nucleic acid

(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1237:

GAATTCGGCC	TTCATGGCCT	ACACTGAGAA	CGAGATGGCT	ATTTATGAAT	TCATTCATAA	60
CTTTGTGGAA	GTTTTAGATG	AGTATTTTCTAG	CCGAGTGAGT	GAATTAGATG	TATCCTTTTT	120
CAATACTGTT	TTCCACAGTA	CTGGCAAAT	GCACTCTGGT	CCTTATCAGG	TAAGTACCAC	180
AAGGCAGGAA	AACTATTCAG	CAGAGTCCAG	AGTGTTCATC	ACCAACAACT	ATGACAAGAC	240
AGCCAGAGGT	GTGTGTGTTT	TGCAGAACTC	CTCCCAACT	TCGTACCCCA	AGCTCGAG	298

(2) INFORMATION FOR SEQ ID NO:1238:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 303 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1238:

CTCGAGTGGG	GGGAGGGAGG	GGGAGGAGAG	AAGGGGAGGT	GGATGGGGGA	GGGGGACAGT	60
GGAGGAAGAG	GGAAGAGGGA	GAAAATAAGG	AGAAAGAGAA	GGAAAGGCAG	AAGGGGAGGG	120
GAAGGGGGAA	GGGAAGAAC	AAGGGGAATG	GGAAGAGAAT	GAAGAGGAAG	AGAAGAGGAA	180
GAGTAGGAGG	AGAAATAACA	AAAGGCACCA	GGTTGGAAAG	GAAGAATTTA	AAATATATTT	240
ATTGCAAAAC	GACATTATCC	TATAGTGAAA	AATCCTTAAA	AGTTAGGCCA	TGAAGCCGAA	300
TTC						303

(2) INFORMATION FOR SEQ ID NO:1239:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 315 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1239:

GAATTCGGCT	TCATGGCCTA	CTCTTCTCTG	AGACAGAAAA	CTAGCGAACC	CCAGGGGAAG	60
GTGCCGTGTG	GAGAGCACTT	TCGGATTCCG	CAGAATCTAC	CAGAGCACAC	CCAAGGCTGG	120
CTTGGGAGCA	AATGGCTCTG	GCTTCTTTT	GTGTGTGTC	CGTTTGTGAT	ACTGCAGTGT	180
CAAAGAGACA	GTGAGAAGAA	TAAGGAGCAG	AGTCCTCCTG	GCCTTCGAGG	CGGCCAACTT	240
CACCTCTCCAT	TAAAGAAAAA	AAGAAATGCT	TCCCCCAACA	AAGACTGTGC	ATTCAATACC	300
TTAATGGAAC	TCGAG					315

(2) INFORMATION FOR SEQ ID NO:1240:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 553 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1240:

```

GAATTCGGCC TTCATGGCCT AAAATGACCT TGGTAAGAAT GGGTTTTTAC AATAAATGAA      60
TTTTTAATTC CAAGATGTTT TTTTATTGAA ATTACTGCCC CAGTTGCATT AAAAGTGTGG      120
CTGTGCAAAAG CTTCTTCTA CCAGGCTTCA TGTGCAGGAC CTGGGTTTTT GTTGCCTTGG      180
CAATTCCAAA AGCAGGTGTT GAAAGAGAAG AAGACAGGAA AAAGAAGATG GGAGAAAAAT      240
TTTCCAAATC AGAGTTCTCA GTCCAAGGAC TTATTCTTGG GGGTTCAAAA ATTCTAACAG      300
TATTTTTAAA TTGCCTCTAT TTCGATGGTT ACTTGATTAA ACTGTTCTAA CATTCTTAAA      360
AATAAAAATT TGCAATGATA ACTTTTATAT CAGACTTTAC CTCTGTTTCC CAAATTGGAA      420
TCTTTAGGAA TATTTTTTTG AGATCACTTT TTTCTTTT TTCTTTAACA AAGATTGGGA      480
ACCGCTCTTA GGAACAGACA AATGGATTTC CATATTTCTT AAAGCGTTGA AGTAAATCTC      540
TGCCACCCTC GAG                                         553

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(2) INFORMATION FOR SEQ ID NO:1241:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 437 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1241:

```

GAATTCGGCC TTCATGGCCT ACTCTTCTCA AGGCTTTGAA ATCTCCCCTT GCACTGAGAT      60
TAGTCGTCAG ATCTCTCCCC GTCTCCCTCC CAACTTATAC GACCTGATTT CTTAGGACG      120
GAACCGCAGG CACCTGCGCC GGGCGTCTTA CTCCCGCTGC TTGTTCTGTC CCTCCCTCG      180
GACCAACAGT TGCTCATGCT TCAGGACCTT GTTTGTCGAA GATGTTGGTT TCCCTTTCTC      240
TGTTATTTAT ATAAAAATAA TTTATCAAAA GGATATTTTA AAAAAGCTAG TCTGTCTTGA      300
AACTTGTTTA CCTTAAATTT ATCAGAATCT CAGTGTGTTA AAGTACTGAA GCACAAACAT      360
ATATCATCTC TGTACCATTG TGTACTAAAG CACTTGAGTC TAATAAATAA AGAAATCAGC      420
ACCCCTAGGC CATGAAG                                         437

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(2) INFORMATION FOR SEQ ID NO:1242:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 523 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1242:

```

GAATTCGGCC TTCATGGCCT ACAAATATAT GTCTTTTGAA AACCNAGTCA AGTACCTAGA      60
GATGAAAACC ACAAATGAGA AACTGTTACA GGAATTAGAT ACACCTCAAC AACAAATGGA      120
TTCACAGAAC ATGAAAAAAG AGAGCCTGGA AGCAGAAATA GCTCACTCCC AGGTGAAACA      180
GGAGGCGGTA TTGCTGCATG AAAAAGCTTA TGAGTTGGAG TCCCATCGAG ATCAAATGAT      240
TGCAGAAAGC AAAAGCATAG GATCTCCAAT GGAAGAGAGA GAGAAATTAC TTAAGCAGAT      300
TAAAGATGAT AATCAGGAAA TAGCCAGCAT GGAAAGACAG TTAACAGATA CAAAAGAAAA      360
GATAAATCAG TTTATTGAAG AAATTAGACA ACTTGACATG GATTTAGAGG AACACCAAGG      420
TGAAATGAAC CAGAAATACA AGGAGCTAAA GAAAAGGGAG GAACATATGG AACTTTTAT      480
TGAGACTTTT GAGGAAACAA AGAATCAGGA ACCAAAATC GAG                                         523

```

(2) INFORMATION FOR SEQ ID NO:1243:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 352 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1243:

```

GAATTCGGCC TTCATGGCCT AACTGATTAC AGGGAAAGAC AAAAAGCAAA AGGTGATTGA      60
AACATAGTTC TAAATAACAA GAAGGGAAGT TTTCTTAAAC TGATCATCTG TCTTATTGTC      120
ATGACAAAGG GTAAAATTTT ATTTTCAGTC CTTTAGTGCT TTTTAATAAT TCACCATACA      180
TATTTTACTT ATATCCCAT TACTGTGGGA CTTAGCACAG TTTACATTTT CAGTCATGTG      240
AATATAATTA TCTGTATTCC CTGTTGGACT GATGGGGGAA ATTGGATCAT TATATAATTT      300
AAAAGACACC TCCCAGGCA CCCATTGTGT TCTTAGGAAG TCAGTGCTCG AG              352

```

(2) INFORMATION FOR SEQ ID NO:1244:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 306 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1244:

```

GAATTCGGCT TCATGGCCTA ATTCAGCTTT ATCGTTCCTT CTGGCAGTTC AGTTGTTGGC      60
CCAGATTTAT TAAGGTTTGA CAGAAAGCAA CTGAAATCTC CCTTAGAAAT AAAGTTCTCTG      120
GTGTGAAGAA AAAAAAGATC CATAAAAAGT CTCATCCTTA GGACAGCAAC TTTTATAATG      180
CACAGCTGAT CTGAATAGCT CTCTGGATTG TGGCCTTGGA CAACAGTTCA GACTGCATTA      240
TTGAGTATGA ACCTTGAGCT TTCTGAGTCT CTTCTTTTGG CTCTTTTACT AGCAGACCCT      300
CTCGAG                                         306

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(2) INFORMATION FOR SEQ ID NO:1245:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 591 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1245:

```

GAATTCGGCC TTCATGGCCT AGGGTTTGGG GGTCTGAGA TGTACTCTC ACTGAAGTCT      60
GTGTGGGAGG CGGATTACTA AACAGAAAT TGCTAATTAA TCTCCAGATG GCAAGGAATG      120
GATAAAGCAC TGTTCCTAAC AAGGTCCAAA TGTCTCCGCT GGAAGAGTGT ACAATGGATG      180
CAGTTGGTCT TCCTGCTGGC AACAGTACCA CCGAAGCGCT TGGGGCAAGT TCCAAATCCA      240
GTAACCTCTT TTTATAATCT TCTTTGGTAA ATTCCCTCCT GGGAAACATG GTTGCTAACG      300
AAAAATTACC GTAAGTGTG CCAACAGTCT GTGCAGCAAA CTGCCTTGCC TCTTCTAGAG      360
GAGCATCAGA AGGGAAGTGA TTTGTAAAGG AAGAACCATC AGGAAGACGG AATTGAATTC      420
TTGCAACAGT GCTTCTTTCT CTTCGATAAG ATTCCCTCTT GACTTCCATT TCTGCCTGTT      480
TTGCTAGCAA GGCAGCAGCT TTGGCAGCCT CTACTTCTTC CTTTGTCTTT GCAAAACGAG      540
CAGCTCTCTC TGCACGGTCC AATGCAATCT GCTGTTTTAT ACGTTCTCGA G              591

```

(2) INFORMATION FOR SEQ ID NO:1246:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 593 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1246:

```

GAATTCGGCC TTCATGGCCT ACTTCGGGGA AGAAACCTTC ACCAGAGTGG AGCAGTTCAG      60
ACCATGGAAC CTCTGATCCA AGCAGCCCAG CTCCTGCAAT TAAAGAAGAA AACCCAGGAG      120
GACGCAGAGG CTATCTGCTC CCTGTGTACC TCCCTCAGCA CCCAGCAGAT TGTCAAAATT      180
TTAAACCTTT ATACTCCCCT GAATGAATTT GAAGAACGGG TAACAGTGGC CTTTATACGA      240
ACAATCCAGG CACAACACA AGAGCGGAAT GACCCTCAGC AACTGCTATT AGATGCCAAG      300
CACATGTTTC CTGTTTGTGTT TCCATTTAAT CCATCTTCTC TAACCATGGA CTCAATCCAC      360
ATCCCAGCGT GTCTCAATCT GGAATTCCTC AATGAACTCT GAAGATGCAT GTTCCAGCA      420
TTAGTTTGAT TCCCAATGTG AGCAAGAAGG AAGTATATAC AGTAAAGTAA ATTCAAGGAT      480
CTGTTAAATC TGGTAAAAGT AGATCAAATC AGAGATTGAC AGCCTGTGGA GGGTGCTGAA      540
CTATACAGAA TTAGACACAA CTATGTCATT ATTTTGTGTA CCAACTACTC GAG          593

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(2) INFORMATION FOR SEQ ID NO:1247:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 599 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1247:

```

GAATTCGGCC AAAGAGGCCT AACTCAGAA TGGTGCTACT TGAAGACTCT GGATCTGCTG      60
ACTTCAGAAG ACATTTGTGTC AACCTGAGTC CCTTCACCAT TACTGTGGTC TTACTTCTCA      120
GTGCCGTGTT TGTCACCACT TCTCTGGAG GAACAGACAA GGAGCTGAGG CTAGTGGATG      180
GTGAAACAA GTGTAGCGGG AGAGTGGAAG TGAAAGTCCA NGAGGAGTGG GGAACGGTGT      240
GTAATAATGG CTGGAGCATG GAAGCGGTCT CTGTGATTG TAACCAGCTG GGATGTCCAA      300
CTGCTATCAA AGCCCCTGGA TGGGCTAATT CCAGTGCAGG TTCTGGACGC ATTTGGATGG      360
ATCATGTTTC TTGTCGTGGG AATGAGTCAG CTCTTGGA TTGCAACAT GATGGATGGG      420
GAAAGCATT TGAATCAC AATGAAGATG CTGGCGTGAC ATGTTCTGAT GGATCAGATC      480
TGGAGCTAAG ACTTAGAGGT GGAGGCAGCC GCTGTGCTGG GACAGTTGAG GTGGAGATTC      540
AGAGACTGTT AGGGAAGGTG TGTGACAGAG GCTGGGGACT GAAAGAAGCT GAACTCGAG      599

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(2) INFORMATION FOR SEQ ID NO:1248:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 418 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1248:

```

GAATTCGGCC AAAGAGGCCT AACCGAATGG ATTATCTGTG GGAGTAACAT CTCAGAAGAC      60

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TATGAAGCTA	ATTCTGCCT	CAAGACACAG	AGCTACACAA	AAGGTGGTTA	TTGGAGATCA	120
TGATGGGGTA	GTTATGTGCT	TTGGCATGAA	GAAAGGAGAA	GCAGCAGCAG	TGTTCAAGAC	180
TTTACCCGGG	CCGAAGATTG	CAAGGCTGGA	ACTGGGAGGG	GTTATCAACA	CACCTCAGGA	240
GAAAATTTTT	ATTGCTGCAG	CATCTGAGAT	TAGAGGCTTC	ACAAAAAGAG	GAAAAACAGTT	300
CCTCTCCTTT	GAAACAAACC	TCACTGAAAG	CATTAAAGCT	ATGTATGTCT	TTTGTCTCT	360
TTTGATTTTT	TACATACCTA	TTTATAATAT	TTTGATAGA	TGTGAGGCAA	CCCTCGAG	418

(2) INFORMATION FOR SEQ ID NO:1249:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 800 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1249:

GAATTCGGCC	AAAGAGGCCT	AGCAGAGCAC	AGCATCGTCG	GGACCAGACT	CGTCTCAGGC	60
CAGTTGCAGC	CTTCTCAGCC	AAACGCCGAC	CAAGGAAAAC	TCACTACCAT	GAGAATTGCA	120
GTGATTGTCT	TTTGCTCTCT	AGGCATCACC	TGTGCCATAC	CAGTTAAACA	GGCTGATTCT	180
GGAAGTTCTG	AGGAAAAGCA	GCTTTACAAC	AAATACCCAG	ATGCTGTGGC	CACATGGCTA	240
AACCCTGACC	CTTCTCAGAA	GCAGAATCTC	CTAGCCCCAC	AGACCCCTTC	AAGTAAGTCC	300
AACGAAAGCC	ATGACCACAT	GGATGATATG	GATGATGAAG	ATGATGATGA	CCATGTGGAC	360
AGCCAGGACT	CCATTGACTC	GAACGACTCT	GATGATGTAG	ATGACACTGA	TGATCTCACC	420
AGTCTGATGA	GTCTCACCAT	TCTGATGAAT	CTGATGAACT	GGTCACTGAT	TTTCCCACGG	480
ACCTGCCAGC	AACCGAAGTT	TTCACTCCAG	TGTCCCCAC	AGTAGACACA	TATGATGGCC	540
GAGGTGATAG	TGTGGTTTAT	GGAAGTGGT	CAAAATCTAA	GAAGTTTCGC	AGACCTGACA	600
TCCAGTACCC	TGATGCTACA	GACGAGGACA	TCACCTCACA	CATGGAAAGC	GAGGAGTTGA	660
ATGGTGATCA	CAAGGCCATC	CCCGTTGCCC	AGGACCTGAA	CGCGCTTCT	GATTGGGACA	720
GCCGTGGGAA	GGACAGTTAT	GAAACGAGTC	AGCTGGATGA	CCAGAGTGCT	GAAACCCACA	780
GCCACAAGCA	GTACCTCGAG					800

(2) INFORMATION FOR SEQ ID NO:1250:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 347 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1250:

CAATTGCCAA	GGAAACAGGC	CTTGGCCTGA	AGGTACTAGG	AGGAATTAAC	CGGAATGAAG	60
GCCCATTTGGT	ATATATTCAG	GAAATTATTC	CTGGAGGAGA	CTGTTATAAG	GATGGTCGTT	120
TGAAGCCAGG	AGATCAACTT	GTCTCAGTCA	ACAAGGAATC	TATGATTGGT	GTATCATTTG	180
AGAAGCAAA	AAGCATAATT	ACCGGAGCCA	AGTTGAGTAC	TAGGTTAGAA	TCTGCTTGGG	240
AGATAGCATT	CATAAGACAA	AAATCCGACA	ACATTGAGCC	AGAAAATCTG	TCATGTACAT	300
CACCTATAGA	AGCTTCAGGA	GAATATGGAC	CTCAAGCCTC	CCTCGAG		347

(2) INFORMATION FOR SEQ ID NO:1251:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 301 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1251:

GAATTCGGCC	TTCATGGCCT	ACAGCCCTCT	TACTAGGCCA	GCACGCTTTC	GCTTTTGTCAT	60
TTACAATCAC	ATACCCCATC	CCCTCCACTT	GAAAAAGAAT	TTTGTTTTTG	TCGTTATCCA	120
AAAATCTCAT	CTTAAATCAA	CCGTCTCGTC	TCCCTGTAGC	TTCAATTACCA	TCTCAGAAGC	180
AGCAAAGGAG	CCAGCAAAAG	CTAAGGTACA	GAAAGTCGCT	TTGGAGGATG	ATGGTGAGTG	240
GTTATACTTA	ATAGAAGCTA	TCATTATTA	AGCACCTAAT	GTGTGTCTGG	AGGGGCTCGA	300
G						301

(2) INFORMATION FOR SEQ ID NO:1252:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 392 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1252:

GAATTCGGCC	TTCATGGCCT	TGCATGCCCA	CAGTGAGCTG	AGATCGCAGC	ACTGTACTCC	60
ATCCTGGGGG	ACAGAGCTAG	ACTCCATCTC	AAAAACGAAA	GTGCCTGGTC	GTCTTTCCAC	120
ACGACTCCGT	TTCCACTCCC	ATAAAATGCT	ACGTTAGCTG	TTTTGAGGGT	AGATGCCCTT	180
AGACTGCCAA	CTCACAAAGT	TTTATTGGGC	ACCTGTTACC	TGTTTCAGCAG	AGATTGTGTA	240
AAAAAGACAC	ATCAGGTGGC	CTTTGCTTGC	AAGAAATCAG	CCTTTGGAAC	CTGTGGAGAA	300
AAGTTAAATA	CTGCGTACTG	TGCAAATGAA	GGGTGGGAGC	TATTGAAGGG	AAGAGATTCA	360
CCCTGAAAAC	CCAAGAATGG	CCAAATCTCG	AG			392

(2) INFORMATION FOR SEQ ID NO:1253:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 610 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1253:

GATTCGGCCT	TCATGGCCTA	GCTGGTCTCT	GGTTGCAGGA	TCGAATCGCC	CCCAGCAGTA	60
TGTGTATATG	CATCAGATAA	GGTGAGGGAC	AACCTTCCTC	ACCCCATAC	CTGGCCAGCC	120
TGTAATGGGG	AGGAGGCCTT	TCTGTGGTGT	GGTGGGGCTG	GAGATTGGGC	AGGGACAGAG	180
ACATACTTTC	TCTGGGAATC	TGAGAGAGAT	ACCTTGAATC	TAGGGGAAAG	GGATTAGGTT	240
TTGAAAATGT	TAGCCATTTT	GTAAAGAGAA	GTCCCTCACC	ATTTCCTTTC	CCATTAGTCC	300
TGGGAAATAG	ATTGGGTAGA	GGCTCAGAGC	CTGGCCCCTG	CTGCACTCCC	AGCTTGGAGC	360
TACTGGGTTG	TTGACAAATG	TTTGGGGTTT	CCAGGCCTTA	GCAAGAGAAA	GCCTCCCCAG	420
ATACCAGTCT	AGGGGTAGAT	GAAGGGGGCA	GGAGCCCTGA	AGGAAGGATT	TGGGGCCGGC	480
CATTCAATCA	TTCAGAAACA	CTTATCATCC	CTTATCAGAA	GCCCTGACCT	ATTGAGAGTC	540
AGGCACGTGC	TATTGAGAGT	CAGGCACGTG	CTCATATAAA	GATGAGTTTA	ACATGGATCT	600
CCCTCTCGAG						610

(2) INFORMATION FOR SEQ ID NO:1254:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 328 base pairs

(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1254:

GAATTCGGCC	TTCATGGCCT	AGAGGATTTA	CACATGGCAT	TCAGTGTCT	GTATAGATCT	60
GCCTACCTTT	GTGAATTCAT	CTGTTAACCC	CTCTTCCTTT	GAGAGAGCAC	CGGCGATGGT	120
GGTTAACTCC	TGTGTTTTCT	CTCTCTCCTA	CTGGTTATTC	TTGAATTAAG	CACAGACTCG	180
TCAGCTCGGT	TGCTTTATCA	TGAATAATGT	GTGTGACCTT	GCAGTTCTTC	CACAGTTCAG	240
CAACAAGTG	CTAGCTTCAC	TGACCAAAAA	TTAAGGAAGG	AAAACACAGT	TTTTAAACG	300
ATCCATCTTT	TACAGCCGA	AACTCGAG				328

(2) INFORMATION FOR SEQ ID NO:1255:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 488 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1255:

GAATTCGGCC	TTCATGGCCT	ACTAAGAGAA	CAATTAGAAT	ATTGGAAGAT	AAAGGGACAA	60
GTACTGAATT	AGTTAAAGAA	AATCAGAAAC	TTAAGCAGCA	TTTGGAGAG	GAAAAGCAGA	120
AAAAACACAG	CTGTCTTAGT	CAAAGGGAGA	CTCTGTTGAC	AGAAGCAAAG	ATGCTAAAGA	180
GAGAACTGGA	GAGAGAACGA	CTAGTAACCTA	CGGCTTTAAG	GGGGGAACTC	CAGCAGTTAA	240
GTGGTAGTCA	GTTACATGGC	AAGTCAGATT	CTCCCAATGT	ATATACTGAA	AAAAAGGAAA	300
TAGCAATCTT	ACGGGAAAGA	CTCACTGAGC	TGGAACGGAA	GCTAACCTTC	GAACAGCAGC	360
GTTCTGATT	GTGGGAAAGA	TTGTATGTTG	AGGCAAAAGA	TCAAAATGGA	AAACAGGGAA	420
CAGATGGAAA	AAAGAAAGGG	GGCAGAGGAA	GCCACAGGGC	TAAAAATAAG	TCAAAGGAAA	480
CACTCGAG						488

(2) INFORMATION FOR SEQ ID NO:1256:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 316 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1256:

GAATTCGGCC	TTCATGGCCT	AGATCCAGAC	ACGGCACTGC	AGCTTTCAGC	TGACTAGCTG	60
TGTGACTTGG	GCAAGCCCCCT	TAATCTCTCT	GATCTCGGGC	TCCCTCCTCT	GTAAAAATGGA	120
ATTAAGAATA	ACCTCATTGA	GGAGCTTCCT	GAGGAGGTAA	GGAAAGTGCC	TGGCACAGTG	180
CCAGGCTGCT	AAGAGATCAA	TAAATGTCCC	ATCCCCCAGC	CCCACCCAG	TTCTTTCCAG	240
GAATTGAGA	GACTCCTCCC	CCTGTGTTTG	AAAGTGGCAA	AGTCTGGCAC	ACTTGCCTCA	300
TAACACATAA	CTCGAG					316

(2) INFORMATION FOR SEQ ID NO:1257:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 346 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1257:

```
GAATTCGGCC TTCATGCCTA AGCTTCCTTC AGCAGCGCAG GCGGTGGTCC CTGAGGCCCC    60
TGGAAGGAGT CAAACTTGCG GGAATTTTGC AGTTTATCTG CAGGGCTGTT GTTTCAGCA    120
AGACCCAAAG CTAGAAAAGG AGGAGGAAGA AACTGACCCG ATCAGTGCCA GAAGTCATTG    180
TATTCAAAGA AGAATAAGCA AGAAAGAAAA GAAGGAAGGA AGAGAGGTAG ACAGATACAA    240
GATGAAATCC TGTCAAAAAA TGGAAGGAAA ACCAGAAAAT GAGAGTGAAC CAAAGCATGA    300
GGAAGAGCCA AAGCCTGAGG AAAAGCCAGA AGAGGAGGAG CTCGAG                    346
```

(2) INFORMATION FOR SEQ ID NO:1258:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 346 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1258:

```
GAATTCGGCC TTCATGCCTT ACGGCACTTC AAAAATATAA ATCAAAGTCC ATGACTCTAA    60
AAATAACATA TGCATTGATA TGCTCGCCCC TTTGACCCTT CTCTCAAGAG AAATTCCTGT    120
CCAAGTAATC CACATACATA AGAAGTGTA AAGTCCCTA GATTAAAAGA GCATAAAACT    180
TCATTATGGA AACACAGTAG TCCCGGCTAT TTGGGAGGCT GAGACAGGAG GATCACGAGT    240
CCAGGAGTTT GAGGCTACAG TGAGCTATGA TCGCGCCATT GCACTCCAGC CTGGATGACA    300
GAGGAAATAT TAATTTAGA GTAATCAGAG AAAGCCAGGT CTCGAG                    346
```

(2) INFORMATION FOR SEQ ID NO:1259:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 341 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1259:

```
GAATTCGGCC TTCATGCCTT ACCCCATTCA TGCAGGAATA AATCAAGTGA GCAGTTCAG    60
ACTTTTGCAT AATATTTTGA CTATGATGCT GTTTTATTAA TATTTTCTAA ATTTCAAAC    120
AAAAAGTGAA TGTTTGAAAT TGCTGGGTCC CGATGTTGGT GGCTGTTGGA GTTTGGACC    180
ACTCGCTAGC AGTGATTGGA AGATTATAAT TAGCTAAAAT CCAAAACAAA AAACCAACAA    240
CAAAAATTGT ATGGTGCAGA ACATGCACCT TGACAAATGGT ACTAACTTGT TATTCTATAG    300
AACACGTTAG AATAGATCTA TTTTGCCAG AGCTTCTCGA G                                341
```

(2) INFORMATION FOR SEQ ID NO:1260:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 416 base pairs
- (B) TYPE: nucleic acid

(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1260:

GAATTCGGCC	TTCATGGCCT	AAAGATAAGG	TGGCTGTAAA	TGCGTGGATT	TATACCTGAG	60
TTCTCTCATC	TGTTTCACTG	ATCCATGTGT	CTGTTTTTAT	GCCAGTACCA	TGCTGTTTTG	120
ATNACTATAG	CTTTGTAATA	AAATTTGAAG	TCAGGTAGTG	TGATNCCTCC	AGCTTCATTC	180
TTTTTGCTCA	GGATNGCTTT	GGNTATTCAT	AGTCTTGTGG	TTCCATGTAA	ATTTTAGGTT	240
TTTTTTTTTT	TTTTTTTTTT	TTTTACTAT	TTCTGTGAAG	AATGTTATG	GTATTTTGAT	300
AAGGATTGTA	TTGAATCTGT	AAATGCTTT	GGTAGTCTT	GTCATTTAAA	AATATTGTTA	360
TAGTTCTTCT	AATCCATGAA	CATAGAATAC	CTTCCATTT	TTTTGGTGTC	CTCGAG	416

(2) INFORMATION FOR SEQ ID NO:1261:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 86 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1261:

GAATTCGGCC	AAAGAGGCCT	AGGCAGACAT	CCATAAACAT	TTTCAAAATG	CAGGGTATGT	60
TTTTCAGTGT	TAAGGCAACT	GTTCTG				86

(2) INFORMATION FOR SEQ ID NO:1262:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 332 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1262:

GAATTCGGCC	AAAGAGGCCT	ACTTTTGGTA	ATAACATTTT	AAAGCAGGAA	GTATCTACGG	60
TGTGATCGTG	GTACAGCTCT	TAGTTCAAGT	GTGAAGACAT	TTGGTTGTCT	TGTATATGAC	120
CTAGAAGAAG	GGGCGTCTGC	TGGAAAACAA	TGCTGTTCTT	TTTCTCTTTG	TTTTTTGGGA	180
CGGGGTCTTA	CTCTGTGCCC	CAGGCTGCAG	TGCAGTGCCT	CAATTTTTC	GTTCAAGTGA	240
GCCTCGACCT	CTGGGGCTTA	AGCGATCCTC	CTGCCTCGGC	CTCCCCAGTG	ACTGAGACCG	300
CAGGCACACA	CCACCACACC	CGGCACCTCG	AG			332

(2) INFORMATION FOR SEQ ID NO:1263:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 279 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1263:

GAATTCGGCC	AAAGAGGCCT	AAGCCAGGGT	AGGGACAGCA	GA CTGGCAGG	AATGAGTGAC	60
AGTTCTATGC	AAATGGAGTT	ATTATTATTA	TTGTTATTAT	TAATAAGGGC	AGGTTTGTAC	120
CAGAACTGCC	CAGTATGGCC	TGTGACTTCT	GCGCAGCAAT	TATTTCTCCA	GGGACAGGGC	180
CTGAAGCTAC	CTCACAGTGA	TGCAAAAAAA	TGGGATTCCC	CACTAACCCC	CACACACACC	240
CCCTTCCTAC	CAAACCACAC	ATCTCTCAGT	CCTCTCGAG			279

(2) INFORMATION FOR SEQ ID NO:1264:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 629 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1264:

GAATTCGGCC	AAAGAGGCCT	AGGATCACGG	AGGTGGTGCC	TGTGTGTCCC	ACAGGAAGCA	60
AAAGCTGATG	CCCAGTTCCC	AGCATACCTA	AGTAAACTTC	AGGTCCACTC	CCAGCACGTT	120
TCTCGTGATA	GTAAACTAT	GAAGGAAGTC	AGTGACAAG	GAGCTTCTAC	AAAATAGGCA	180
GAAGACAGTA	GCCAGATGGG	CCAAGGGCCC	CAGCCACCCA	CGCCCTCCC	TCTCCTTGAA	240
GACCTTCGGT	TCCAACCCCA	CCATCAGCAG	GGCTCTGCTC	AGTTCCTCCT	TATGTGTATC	300
ACCACAGGGC	TGCTGGCTCG	TGTCACGTTT	ACCACCAGAC	CCCACATCAG	GAGTCCCGCC	360
AGGGGTGTGG	GGAGGCAGCG	CTGCCGTGTT	GGCCGTGGAG	CCGTATGGAA	CATGGTGCCT	420
CACAGGCAGT	CTGCTTGGCG	TCCTGGATCC	TGGCTGTATC	CCGCTGGAAA	GGATGTGTGT	480
GGGTCTAAGA	TATGTATATA	ATAGAAACAT	TTATTGAGAA	GCTTTAGTCA	AGACTTCATT	540
TTTAAGTTCA	GAGTAATAAA	CTCATAGTCT	AAATTCCTTA	ATTTTCTGT	TTAATTTACA	600
TAAATAAAAT	GAAATGCAAT	TTCCTCGAG				629

(2) INFORMATION FOR SEQ ID NO:1265:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 426 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1265:

GAATTCGGCC	AAAGAGGCCT	AGAGGTGCCC	ATTTCAATAA	ATTTTAGCAC	ACTGGATGAT	60
AAAGGAGAAA	TGCTTTGGTT	TAAGAGAGGG	AAATCTTGT	TACCAATACT	ATCGGTGAGT	120
TCACCTAATA	CTTCCTCGTC	ATCAAGTTCA	TTGGAGTACG	CATCTTCTTC	ATCCTCATCT	180
CCCGTTTCA	TGGGTTCACT	TTTGACAGGG	CACTCCCGT	TGGGTGTAA	AACGTTGCTT	240
TCTTTTGCCC	TTTCACAGTT	GTTCTCTTGG	TCTTTGCTCT	CTGACATCTT	GCTAGACTCA	300
GACGATGAGT	GGCTGAGGGA	GACAGAGGTA	ATTGGGGTGT	TCACTACTAA	ACTAGACAGC	360
CCCCCAGAT	TCACCTCAGC	CTTGGCATT	TGGGTAATCC	CCAGCGGCTG	CTCTGCTGAG	420
CTCGAG						426

(2) INFORMATION FOR SEQ ID NO:1266:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 450 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1266:

GAATTCGGCC	AAAGAGGCCT	ACCGCCCATC	GCGCCGGCGC	GACCCGCAGG	AGCGTAGAGA	60
GCGCGGGACT	AGAGTGCAGA	GCTCCGGGAC	GTGGATCGGA	GCCGGCGCGA	TGGGCGGAGA	120
GCAGGAGGAG	GAGCGGTTCG	ACGGCATGTT	GCTGGCCATG	GCTCAGCAGC	ACGAGGGCGG	180
CGTGCCAGGAG	CTTGTGAACA	CCTTCTTCAG	CTTCCTTCGA	CGCAAAACAG	ACTTTTTCAT	240
TGGAGGAGAA	GAAGGGATGG	CAGAGAAGCT	TATCACACAG	ACTTTCAGCC	ACCACAATCA	300
GCTGGCACAG	AAGACCCGGC	GGGAGAAGAG	AGCCCGGCAG	GAGGCCGAGC	GGCGGGAGAA	360
GGCGGAGCGG	GCGGCCAGAC	TGGCCAAGGA	AGCCAAGTCA	GAGACCTCAG	GGCCCCAGAT	420
CAAGGAGCTA	ACTGATGGAG	AAGACTCGAG				450

(2) INFORMATION FOR SEQ ID NO:1267:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 459 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1267:

GAATTCGGCC	AAAGAGGCCT	AGCTACTAAG	GCAGGTGCAG	CATCAATGAT	TCACTACATG	60
GTTCTGATAT	CAGCTCGCTT	GGTACTACTC	ACTTTGTGTG	GATGGGTACT	TTGTTGGACC	120
CTCGTCAATC	TCTTTGGAAG	CAATTCAGTC	CTCAATCTCC	TTTTCCTTGG	CTACCCGTTT	180
GGTGTATTATG	TTCCCTCTTG	CTGTTTTCAT	CAAGATAGTA	GAGCACATCT	TCTTCTCACA	240
GACTACAAC	ATGTGGTTCA	GCACGAGGCA	GTAAGAGAAA	GTGCCTCGAC	TGTGGGAGGC	300
TTGGCCAAAT	CCAAAGACTT	TCTCTCCTTG	TTGCTGGAGT	CGTAAAAGA	ACAGTTTAA	360
AATGCCACAC	CCATCCCCAC	CCACAGTTGT	CCCCATATCT	CAGACCTCAT	TCGCAATGAA	420
GTAAGATGTC	TGAAAGCAGA	TTTCAACCAC	CAACTCGAG			459

(2) INFORMATION FOR SEQ ID NO:1268:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 432 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1268:

GAATTCGGCC	AAAGAGGCCT	AGAGTTTTC	TAAGCCCGGC	TGGTGTTTAA	AACGTGTTTT	60
GGCTTTGTTT	ATTTTATGGT	GTGGTGTG	GTATTGGTGG	TCATGTACTG	GCATGTAAGA	120
TTTCTTTTCT	CTTTCCTCT	TCTCTCTGCT	TCTACATTCT	GTTCATTGAG	GCTTCCAAC	180
GAATATGAGA	GGAACGGGAG	ATATGAGGGC	TCAAGTCGCA	ATGTATCTGC	TGAGCAAAAA	240
GATGAAAACA	AAGAAGCAAA	GCCTCGATCC	CTACGCTTCA	CCTGGAGCAT	GAAAACCACT	300
AGTTCAATGG	ATCCCGGGGA	CATGATGCGG	GAAATCCGCA	AAGTGTGGA	CGCCAATAAC	360
TGCGACTATG	AGCAGAGGGA	GCGCTTCTTG	CTCTTCTGCG	TCCACGGAGA	TGGGCACGCT	420
GGTAACCTCG	AG					432

(2) INFORMATION FOR SEQ ID NO:1269:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 510 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1269:

```

GAATTCGGCC AAAGAGGCCT ACCCTGAACT ACTCCAGTGT GCACCTGCAC AACCTCCATG      60
GTGCCTCTGG AATTGGGTAG CATGGTGGCC CTGCTGATGA GCACCCCAAG GGGCCATTGG      120
GGGACCTCTG AGAATCTCTG CCAGAGCAGT TTGGGTGGGA GTCGATTAAG GAAAGAAGCA      180
GCAAGATCCA GGACTTTTAA TCTTAAAGA GAGAGAAATG CTGGCAGATG AACATTCTGA      240
GGATAAGGAG CCTGAGTAAT TGAGCGATTA GGGATGGAGA CATACGATTG AATTCTAGAC      300
CTGCCTCGAG TAGCCAATCA AGCTGTGTCT GGCTGTGCAC TATCCAGGCC TCCACATTCT      360
GTGACAAACT AACAGGGCCG GCTCCTGTCA CTCCTGTTCT CGCCAGCGGG TTTTACCCTG      420
AAGGTGACTC AGGCCTTCTC TTTGCCCTAG ATCGTGGGGA TCATCACACG GCACAACCTC      480
ACCTATGAAT TTCTGCAGGC GTAGCTCGAG      510

```

(2) INFORMATION FOR SEQ ID NO:1270:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 388 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1270:

```

GAATTCGGCC AAAGAGGCCT ACGCATCCCC TGCAGTCTTT GCCCCCAGAC GTTTGGTACC      60
AACTCGAAAC TCGCTTGCA CCGGTTAAGG GTACATGACA AAACACCTAC CCACTTCTGT      120
CCACTTTGTG ACTATAGTGG CTACCTTCGC CATGACATCA CTCGTCATGT CAACAGCTGC      180
CACCAAGGCA CCCAGCCTT TGCCTGCTCC CAGTGTGAAG CCCAGTTCAG CTCAGAGACA      240
GCACTTAAGC AGCATGCTCT GCGCGACAC CCCGAGCCTG CACAGCCTGC CCCTGGCTCT      300
CCTGCAGAGA CCACTGAGGG CCCCTGCAC TGTTCCCGCT GTGGGTGCT GTGCCCCAGC      360
CCTGCCAGCT TACGAGGACG GCCTCGAG      388

```

(2) INFORMATION FOR SEQ ID NO:1271:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 407 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1271:

```

GAATTCGGCC AAAGAGGCCT ACAGAACTGT GCCATATTCT TAAACATCAT ACAATATTGC      60
CTTTCAGGCA TGAAAAGCAA AGGGAATTAT TTGTTCAATT GATAGCGCTT TAGTAATGTA      120
AGTGATACA CTTAGGGCTA GCCCTCTGGC TTGTTACCAT GGTAAAGCTAG GGAATATAG      180
TTGAGGGGTC TGCAGCAGAG CTTGGAGAGG ATCTGGGATG TTAAATTCTC AAGTACTTGA      240
ACTTAGCAAC AGGACTTGGT CCCATCCACA CCCTGCTCTC CACCCAGCT GGAATAAATT      300
AGTGCTGACT ATGGAGGCAA AGAGAAACAT ACTTGTAAGC TTTTGTGTTT GGATTTTCTT      360
TGGGGTTTCC TTTTGTCTT TTCTGAACTG GAGGGTGAAA TCTCGAG      407

```

(2) INFORMATION FOR SEQ ID NO:1272:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 321 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1272:

```

GAATTCGGCC AAAGAGGCCT ACATAATCA AAAATTTCTG TGAAGATGGG AAATAAGGCC      60
AAGATTGCAA AATGTCCTTT AAGAACAAAA ACTGGGCACA TTCTAAAAATC AACACAAGAT    120
ACTTGTATTG GGAGTGAAAA ACTTTTGCAA AAGAAGCCAG TTGGTTCAGA AACATCACAG    180
GCAAAAGGTG AAAAAATGG AATGACTTTT TCATCCACTA AGGATTATG TAAACAATGT     240
ATAGATAAAG ACTGTCTTCA TATCCAGAAA GAGATTTCAC CTGCAACCCC TAATATGCAG    300
AAGACTAGAA ACACCTCGA G                                     321

```

(2) INFORMATION FOR SEQ ID NO:1273:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 205 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1273:

```

GAATTCGGCC AAAGAGGCCT ACGAGAACTT CCTTTTCATC TGAATCTTCG TCAAACCTCTC      60
TCTCAGAGCC TTCCTCATCT AACACTTTTT CAGAGCCGTC ATCTTCAAAT TCGGAGTTTT    120
CAGAGTCATT TTCTTCTAAC TCTTTGTCAA GAACATTTTC ATGAAGCTCC TTTTCAGAAC    180
CTTCTCGTC CAAATCTTTC TCGAG                                     205

```

(2) INFORMATION FOR SEQ ID NO:1274:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 450 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1274:

```

GAATTCGGCC AAAGAGGCCT ACTCAATACT GAGGCTGATT GGTCGTTTAG GCCAATTGGG      60
TTTGAAAGAA GGATTTCAT CTGCTGTGAA AAATATTAGT TCGGTTATTG GTATGTTTAT    120
ACAGCATGCT CACGATGAAG ATATACCATG GGGTATACAG TTAGCAGCGG TGTATGCTCT    180
TTGTGACTTG AGTCCCAGCA ATCCAGCAGA AATTCCAAG ATCCTGGAAG CTGGGCGGAG    240
AGAGGCCTCC AAAAGCGTTC CGTCTGCGAT TGTCAGCTGC CTAGAGGAAG TCAGTGCCCT    300
GAGCACAGAG GAGCTTGGCT GACCTGGGAT GCCACTGAGG CTTGAGAAGT GCCTTGACAC    360
ATTTTGAACA CAAATAGTTT GATCAGCTTT CAGAATACAA AGGGAGGTTT CAAAACAAAA    420
AGACATAAAA TAGATAAAAG CAGACTCGAG                                     450

```

(2) INFORMATION FOR SEQ ID NO:1275:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 255 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1275:

GAATTCGGCC AAAGAGGCCT AAAGCAACAG GAAAGGATAA ATTCACAGAG GGAAGAGATA	60
GAAAGACAAC GGAAAAATGTT AGCAAAGCGG AAACCTCCTG CCATGGGTCA GGCCCTCCT	120
GCAACCAATG AGCAGAAACA GCGGAAAAGC AAGACCAATG GAGCTGAAAA TGAAACGTTA	180
ACGTTAGCAG AATACCATGA ACAAGAAGAA ATCTTCAAAC TCAGATTAGG TCATCTTAAA	240
AAGGAGGCTC TCGAG	255

(2) INFORMATION FOR SEQ ID NO:1276:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 367 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1276:

GAATTCGGCC AAAGAGGCCT AACAGATTG ACCGTGAATG GTTCACTGTT GAAACTCTGT	60
GATGGGTACT TGAGAATTTA TTATATTATT ATGCCTATAT TGCAGATATT TGAAGTTTCC	120
CAATAAAATG TTTAAATAG TGGCAGGGGG CAAGAAGAAA AGGACCACTC AATTAAAGA	180
AAAAATAATT TTAAGACACA CAGAGAATAG GAAGAGGGAA AAATTGGTGA GGCAAGAGAA	240
AGGCAGCAGG TGGGGCCATA TCAAGAGTGA TTCTTCAGCA GGTGAGGCGT GATACCACCG	300
CAAAAGTAGA GGGTTGGCTG TAAGATAGGG GGCACAGATG GCTATAATGC AAGGGAAGGC	360
GCTCGAG	367

(2) INFORMATION FOR SEQ ID NO:1277:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 624 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1277:

GAATTCGGCC AAAGAGGCCT ACTCAGAAAC AAAGCCAAAA TTAAGTTCAT CATTAAAAAG	60
CCCGAAATGT TTGAGACGGC GATTAAGGAG AGCACCTCCT CTAAGAGCCC TCCCAGAAAA	120
ATAAATTTCAT CACCCAATGT TAATACTACT GCATCAGGTG TTGAAGACCT TAACATCATT	180
CAGGTGACAA TTCCAGATGA TGATAATGAA AGACTCTCGA AAGTTGAAAA AGCTAGACAG	240
CTAAGAGAAC AAGTGAATGA CCTCTTTAGT CGGAAATTTG GTGAAGCTAT TGGTATGGGT	300
TTTCCTGTGA AAGTTCCCTA CAGGAAAATC ACAATTAACC CTGGCTGTGT GGTAGTTGAT	360
GGCATGCCCC CGGGGGTGTC CTTCAAAGCC CCCAGCTACC TGGAAATCAG CTCCATGAGA	420
AGGATCTTAG ACTCTGCCGA GTTTATCAAA TTCACGGTCA TTAGACCATT TCCAGGACTT	480
GTGATTAATA ACCAGCTGGT TGATCAGAGT GAGTCAGAAAG GCCCOGTGAT ACAAGAATCA	540
GCTGAACCAA GCCAGTTGGA AGTTCCAGCC ACAGAAGAAA TAAAAGAGAC TGATGGAAGC	600
TCTCAGATCA AGCAGAACCT CGAG	624

(2) INFORMATION FOR SEQ ID NO:1278:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 286 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1278:

```

GAATTCGGCC AAAGAGGCCT ACCCAAATCC CATTAGATA AATTGAGGTT CATTTTTCAC      60
ATAGACTTGC AATTTTGTAGA CACCACATTT TTTTATAGT AACAGCCTCA TTGCCTGTGA      120
CAATAACTAA TAATACAGTA TTTCATAGGT ACATTGTATG TGCACAGGAA ATTTTCTTT      180
AAATCTTAAA AGCCTTTAAT AAACGGGATA TTTTAATATT TTAATGTTAC TACATTTAAA      240
AAATAGTGTT TTCCTACAAA ATTTTCTGTA TTCAGTAATA CTCGAG                      286

```

(2) INFORMATION FOR SEQ ID NO:1279:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 227 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1279:

```

GAATTCGGCC AAAGAGGCCT ACTCATCATT AGCTGAAAGT TTGAGAGCTG CAGCAGAAGC      60
GGCTGTATCA CAGACTGGAT TTAGTTATGA TGAAAATACT GGACTGTATT TTGACCACAG      120
CACTGGTTTC TATTATGATT CTGAAAATCA ACTCTATTAT GATCCTTCCA CTGGAATTTA      180
TTACTATTGT GATGTGGAAA GTGGTCGTTA TCAGTTTCAT TCTCGAG                      227

```

(2) INFORMATION FOR SEQ ID NO:1280:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 486 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1280:

```

GAATTCGGCC AAAGAGGCCT ACCCGTGCGC TCTACAAATA GTTCCGTGAG AAAGATGGCC      60
GGGAACTCGA TCCTGCTGGC TGCTGTCTCT ATTCTCTCGG CCTGTCTAGCA AAGTTATTTT      120
GCTTTGCAAG TTGGAAGGC AAGATTAAAA TACAAAGTTA CGCCCCCAGC AGTCACTGGG      180
TCACCAGAGT TTGAGAGAGT ATTTCGGGCA CAACAAACT GTGTGGAGTT TTATCCTATA      240
TTCATAATTA CATGTGTGAT GGCTGGGTGG TATTTCAACC AAGTTTTTGC TACTTGCTCG      300
GGTCTGGTGT ACATATATGG CCGTCACCTA TACTTCTGGG GATATTCTAGA AGCTGCTAAA      360
AAACGGATCA CCGGTTTCCG ACTGAGTCTG GGGATTTTGG CCTGTGTGAC CCTCCTAGGT      420
GCCCTGGGAA TTGCAACAG CTTTCTGGAT GAATATCTGG ACCTCAATAT TGCCAAGAAA      480
CTCGAG                      486

```

(2) INFORMATION FOR SEQ ID NO:1281:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 430 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1281:

```

GAATTCGGCC AAAGAGGCCT AGACAAATTT CCTTTCATTG CTTCCAGCCG TGTATTATTA 60
AGTAATTAAC CTTAATTAT AAATTTTAT ATCAAACGCT CTTTAACTT TTAGAAGTGG 120
CAGGAACAGC CTTATCCCTG GGCTCCTAAT AGTTCTCCAT TTAATCAAAA TTCATCCATC 180
AGGTTCCAGT GTTAAATCAT CTTTAAATTG GGAGTTACAT TCTGGTTAAT AGTTTATATA 240
TTCGCCTCCT CTAATAGTTT TTACCACAGG GATCTCGACT CCATTTTCC TGACTCTATT 300
ATTGCTGGCA TCGGATTCT GCGGGGATGG CTTAACGCGG CCCTGCCTCT CTGGCCTCTG 360
CTGGTCGCCT CTTTGTCT TGGTGGTCTC ATTAATTCCT GAGAAGAGT ATCCTTCCTC 420
CTCACTCGAG                                     430

```

(2) INFORMATION FOR SEQ ID NO:1282:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 333 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1282:

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GAATTCGGCC AAAGAGGCCT AATCCCCTTC TGCATGTTCC CTTCTGCAG GTCTGATGG 60
GCCATCCAC CCTGCTGGGG AGCACAGCTT GCCCTCCCTC CCCTCCTTCT CTTCTGGCGT 120
TGCCTGCTGG GTGCCATCGG AGCAGTCCTC ATTACTTCCC ACTTTGCCC AACTTCTGCT 180
GCTGTGACCA GTCGCATACA CGTGGACACC GTGGGGACTG CCCCTCCATA CAGCTCCTCT 240
GTAAGCTTAG GACCAAGGCT GCCTCTCCAG TCTCCCTGGC CCATGCCTGC CCCGGCATCC 300
TCCGCCCCAG CTACACTGGC CCCGATCTC GAG                                     333

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(2) INFORMATION FOR SEQ ID NO:1283:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 269 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1283:

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GAATTCGGCC AAAGAGGCCT AGGACGTTGG TGTGAGGTT AGCATACGTA TCAAGGACAG 60
TAACTACCAT GGCTCCCGAA GTTTTGCCAA AACCTCGAT GCGTGGCCTT CTGGCCAGGC 120
GTCTGCGAAA TCATATGCT GTAGCATTCG TGCTATCCCT GGGGGTTGCA GCTTTGTATA 180
AGTTTCGTGT GGCTGATCAA AGAAAGAAGG CATACGCAGA TTTCTACAGA AACTACGAT 240
TCATGAAAGA TTTTGAGGAT GAGCTCGAG                                     269

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(2) INFORMATION FOR SEQ ID NO:1284:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 339 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1284:

GAATTCGGCC AAAGAGGCCT AGAGCGTCAA TTATATCAAT TTGTCCCAGA TTTGGATGAG	60
CTGTGAGGAT GTAACACAAG GCTGGAGGAG GCAGATGAGT TTTTATCTCT TCACAGGGCT	120
GGTCGCGGCC AGGTGTTTTT AGAGGTATCG CTGGGGGCCA CAGGGTGTC ACAAAGTGA	180
AAATCCCCGC TGTCTTCCT CTGGTGACTT TCTGTAGAAC CTTCATTCCC ACCAGGCTGC	240
AAGACTTCCC TTCCAAGTGT CTGCTTCG ACATGGTGAA CTCCAAGTGC ACTTCACCGA	300
ACATTCCACA GGCATCTTGT ACCAGAAGGC AGGCTCGAG	339

(2) INFORMATION FOR SEQ ID NO:1285:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 496 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1285:

GAATTCGGNN AAAGAGGNCT AGAAATCANA AAGCATGCCT GTGCAATTGA ACAAAGGGCT	60
AAGTTCTAAA AACATCAGTT CATCTCCAAG CGTTGAGAGT TTGCCTGGAG GAAGAGAATT	120
CACTGGCTCT CCACCTTCAT CTGCTACTAA AAAAGATTCC TTTTTTAGCA ACATCTCACG	180
TTCTCGCTCA CACAGCAAAA CTATGGGCAG AAAAGAATCT GAAGAAGAAT TAGAAGCCCCA	240
AATTCCTTC CTCAAGGGC AGTTGAATGA CCTGGATGCC ATGTGCAAAAT ACTGTGCAAA	300
GGTGATGGAC ACTCATCTTG TAAATATTCA AGATGTGATA TTACAAGAAA ATTTGGAAAA	360
AGAAGATCAA ATTCTGGTTT CCTGGCAGG ATTAAAACAG ATCAAAGACA TTCTAAAAGG	420
TTCCCTGCGT TTTAACCAGA GCCAGCTAGA GGCCGAAGAG AACGAACAGA TCACCATTGC	480
GGACAACCTCA CTCGAG	496

(2) INFORMATION FOR SEQ ID NO:1286:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 319 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1286:

GAATTCGGCC TTCATGGCCT AGCAGAAGCT AAGAAGTGT TTTAAATAAA TTTTAAAGT	60
AAATAAGTTA TAATGCATAG GTTAGCCCAT TCATTAAATGA TTTTCAGTTT CAAGTGTA	120
TATTTCTTAA TGATTACTAG TTGATCAGTG TAATGAAAC ATTGAGTAGA CAAACTAAAT	180
GCACAGTATA AATGTGACAT AAACACTGGT TTCAATTTGT CTCAAGAAAA AAGAAAAAA	240
AAAGGCCCCT GCAATGGCAA AGAGTGGCCA CTATTGGGGT AATTCAAACA ACCCACTGTA	300
ATACAGGAAA GCACTCGAG	319

(2) INFORMATION FOR SEQ ID NO:1287:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 261 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1287:

AAAATGGAGA AGTTACTGGC TGGAGAAGAT GGGACAAGTG AACGAAGGAA AAGCATCAAA	60
ACCTACAGAG AAATTGTTCA AGAAAAAGAG CGGAGAGAGA GAGAGCTGCA TGAAGCATAT	120
AAGAACGCTC GGTCCCAGGA GGAGGCAGAG GGGATCCTTC AACAGTACAT TGAGAGGTTC	180
ACCATCAGTG AGGCTGTTCT CGAACGCTTG GAGATGCCAA AAATTCTGGA AAGAAGCCAT	240
TCAACAGAGC CAAAACTCGA G	261

(2) INFORMATION FOR SEQ ID NO:1288:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 275 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1288:

GAATTCGGCC TTCATGGCCT ACTCTGAAGA TATTTATAGC TCTCTTAGAG GTGTCCTGA	60
AGCAATCCAG AATTTCAGCT TCCGTAGCCA AGAAGATATG AATGAGCCAT TGAAAAGGGA	120
TTCTAAAAAA GATGATGGCG ATTCAATGTG TGGTGGTCCT GGGATGTCTG ACCCAAGAGC	180
AGGAGGTGAT GCTACTGACT CAAGTCAAAC AGCTCTTGAT AATAAAGCTT CATTGCTCCA	240
TTCAATGCCT ACTCACTCCT CTCCACGCTC TCGAG	275

(2) INFORMATION FOR SEQ ID NO:1289:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 139 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1289:

GCGATTGAAT TCTAGACCTG CCTCGAGAAC GCCGGGGTCC ATCATTAGCA GTCCTCACAT	60
GCGCCGGAGA GCTACATCAA CACGAGAGTG TCCATCTCGC CCACACCAGA CTATGCCCAA	120
CTCATCTTCC CCCCTCGAG	139

(2) INFORMATION FOR SEQ ID NO:1290:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 358 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1290:

GAATTCGGCC	AAAGAGGCCT	AATAAGTTTG	ATTAAGCTTG	CAGACATTAA	GCTTTTCTAG	60
CAGCTGGTGT	GTGCAGAGGC	AGATGGCTCT	CTGGTTCCAG	GACTACCTAC	AATATAGAGA	120
AATTTTCTCT	ATTCCAGTCA	ATTCATCATG	GGTAAGAATA	GTCCATTTTG	GTAGTGTTAT	180
TTCATCGTTT	ACAATCTACC	TATGGGTAGT	GGCTGGTAAC	TGCCTGGATG	TTGACATTTT	240
ACAAAGGCCA	TACTTAACCA	CACTTTATT	TCTATTTGTG	CGATGCCTTG	GAGTAGTTTC	300
CCAAAGTGAT	TTTGAGTGTG	GAAGAAATGG	TATTGTCCCC	GAACAGCTGG	TGGTCGAG	358

(2) INFORMATION FOR SEQ ID NO:1291:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 139 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1291:

GAATTCGGCC	TTCATGGCCT	AGAGGATCCT	AATGAAATAC	CTGAAACATA	TATTGGCATT	60
TATCAATGGC	TCAAATCTTC	ATTTATCTCT	GGCCTTAACC	CTGGCTCCTG	AGGCTGCGGC	120
CAGCAGAGCC	CAGGTCGAG					139

(2) INFORMATION FOR SEQ ID NO:1292:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 442 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1292:

GAATTCGGCC	TTCATGGCCT	ACTATCAGGA	AGTGATTTCG	GGAGAGGGGA	TTTACCTGA	60
TGGTGGAGAA	TACAAACCCC	CTTCTGATT	TTTGAAAAGC	AGAGACTATT	ACACGGATTT	120
CCTAATTACA	CTGGCTGTGC	CCTCGGCAGT	GGCACTGGTC	CTTTTCTAA	TACTTGCTTA	180
TATCATGTGC	TGCCGACGGG	AAGGCGTCAT	CCAAGTGGTC	CATCACAGTG	CTATTAGAA	240
ATCTACCAAG	GAGCTTCGAG	ACATGTCCAA	GAATAGAGAG	ATAGCATGGC	CCCTGTCAAC	300
GCTTCCTGTG	TTCCACCCTG	TGACTGGGGA	AATCATACCT	CCTTTACACA	CAGACAACTA	360
TGATAGCACA	AACATGCCAT	TGATGCAAAC	GCAGCAGAAC	TTGCCACATC	AGACTCAGAT	420
TCCCCAACAG	CAGACTCTCG	AG				442

(2) INFORMATION FOR SEQ ID NO:1293:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 231 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1293:

GAATTCGGCC	TTCATGGCCT	ACATGAATTA	TCTGTGAGTT	GGTTAAAGGT	AATATTGGTT	60
AGCATCAAGA	ATAGGAAGCT	ATTAGTTTTT	AATCAAGAAT	AAGCTCAAAT	TTGGTCTAAA	120
TCTTAATTTT	AAGCTGGGTA	ATCATTGATT	TACAATTTT	TTCTTGGTGT	CACATTTCTT	180
CCAAAACAAT	AATCAATGAA	GCCTTTCCCA	CCCTGTGCCT	TTGCTCTCGA	G	231

(2) INFORMATION FOR SEQ ID NO:1294:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 355 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1294:

GAATTCGGCC	TTCATGGCCT	ACTCTGCTAA	CTTCCTGCCT	CTATGTCTTT	CCCCACCTAC	60
CTCCTCTCCC	CATTCACACT	CCTGGGTGAC	CTCATCCATT	TACCTGCCTT	CAATTAGCAT	120
CCATACGTTT	CTCCTTTCTC	AATATAAGTC	CCCAGCTGAG	ACTCTGTTTC	TGAAATCCAG	180
ATTTTTATTT	CCAATTCTAC	TGAACAACT	CAGTCTAAAG	CCAAGCCCAT	TATCTTCTCC	240
TATAAGCCTG	CATCTTTTCT	TTTCTTTCTT	TCCTTTTTTT	TTTTTAACAG	AGGTTAATGG	300
CATTCAACAT	CTACCCAAGC	ACCAGGGAGT	TAGATTCAGA	ACGGATGGAC	TCGAG	355

(2) INFORMATION FOR SEQ ID NO:1295:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 429 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1295:

GAATTCGGCC	TTCATGGCCT	AGGCTAACTG	TTATTTGCAT	CTTACAGCTC	AGAAAACAAG	60
CATGGTGAGA	TAAGGAACT	TACTAAGGT	CACATACTA	GTAAGTGGTG	GAGCCAGCGT	120
TGAAACTCAG	GAAGTCTGTA	CACAACTGGG	AGGGAAGGCT	AATATTTGAA	ATGATAGACT	180
CAACATTCAA	TATTTAGTA	TCGATGAGCT	CTAAGTTGAT	AGAGCTATGT	GTAAAAACCC	240
TGCATTTAAT	ATTAAGAAAT	CATTGGCAGA	AGAGTAAGAG	AGGGCTTTGG	TCAAGTAAGC	300
TGAGTGCATA	AGAAAACCTCT	GGCATTGAG	GTGTCCTTAG	CTCCAGATGC	TTTGGTAGGG	360
CAGAGTGTAT	CCATGGAGGT	ACCATGAGCT	ACCATGGAGG	TAGCTCAGAG	AGGAAAGGGA	420
AACCTCGAG						429

(2) INFORMATION FOR SEQ ID NO:1296:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 406 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1296:

CTCGAGCTGT	TCTGTAAATA	CCTGGTGCTA	ACATCCCATG	CCGCTCCCTC	CTCAGGATGC	60
ACCCACCGCC	CTGAGGGCCC	GTCCTAGGAA	TGGATGTGGG	GATGGTCGCT	TTGTAATGTG	120

CTGTTCTCT	TTTTTTTTTC	TTTCCCCTCT	ATGGCCCTTA	AGACTTTCAT	TTTGTTCAGA	180
ACCATGCTGG	GCTAGCTAAA	GGGTGGGGAG	AGGGAAGATG	GGCCCCACCA	CGCTCTCAAG	240
AGAACGCACC	TGCAATAAAA	CAGTCTTGTC	GGCCAGCTGC	CCAGGGGACG	GCAGCTACAG	300
CAGCCTCTGC	GTCTGGTCC	GCCAGCACCT	CCCGCTTCTC	CGTGGTGACT	TGGCGCCGCT	360
TCCTCACATC	TGTGCTCCAT	GCCCCTAGGC	CTCTTTGGCC	GAATTC		406

(2) INFORMATION FOR SEQ ID NO:1297:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 639 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1297:

GAATTCGGCC	AAAGAGGCCT	ACGCCCGCCA	ACAGCCCTGG	GTAATTTTTT	GTATTTTITAG	60
TAGAGACGGG	GTTTCACCGT	GTTAGCCAGG	GTGGTCTTGA	TCTCATGATC	TCGTGATCCA	120
CCTGCCTCGG	CCTCCCAAAG	TGCTGCGATT	ACAGGCAAGT	GCCACCGCAC	CCGGTGACAC	180
TGTTGCTCTT	AAGCAGAAGC	AAAATCAAAA	GGCAGACAGG	ACTCAAAGAA	TGGTTCTAAA	240
CCTAAAAAGTA	CTAAGGCCTC	TAGGAACTAT	GATGATGACA	ATTACTGTGC	AATTTATATC	300
ATGCTGAATT	TTAGTAAAC	CCCTGGCAAA	CCACTCTCAC	TTGGTGACAC	TCCGTCCACA	360
GCACGGGGCC	ACAGCATAGT	GGATCAGTAC	AACCTTTCCTG	GACAGCCTTG	CTACCTGTAC	420
ACTCTTATGG	ACTCAATTCC	ACTTCAATGT	ATTCGTTCTA	GAGGTAAATG	GACATGTGAA	480
CACAGATTCA	CAGGCAAAGA	TGTTTATATG	CACCACTGTC	TTGATGTTCA	AGAAAATGGA	540
ACTGGTTACA	TGCATGTGAT	TAGCTATATA	ATGTAACGTG	ATTCAGCCCC	TAAAAAATGT	600
AGGCCTCTTT	GGCCGATTGA	ATTCTAGACC	TGCTCGAG			639

(2) INFORMATION FOR SEQ ID NO:1298:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 606 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1298:

GCGATTGAAT	TCTAGACCTG	CCTCGAGTCC	AACGGCATCG	ACGTGTACCC	CCAGAAGGAA	60
TTTGATGAGG	ACTCGGAGGA	CCGGCTGGTG	AACGAGAAGT	TCCGGGAGAT	GATCCCATT	120
GCTGTGGTGG	GCACTGACCA	CGAGTACCAG	GTCAACGGCA	AGAGGATCCT	TGGGAGGAAG	180
ACCAAGTGGG	GTACCATCGA	AGTTGAAAAC	ACCACACACT	GTGAGTTTGC	CTACCTGCGG	240
GACCTTCTCA	TCAGGACGCA	CATGCAGAAC	ATCAAGGACA	TCACCAGCAG	CATCCACTTC	300
GAGGCGTACC	GTGTGAAGCG	CCTCAACGAG	GGCAGCAGCG	CCATGGCCAA	CGGCGTGGAG	360
GAGAAGGAGC	CAGAAGCCCC	GGAGATGTAG	ACGCCACCCT	GCCCCACCCC	GGGATCCTGC	420
CCCCAAGTCA	TTCCCGTCCC	CCCCCAGGC	CCTCCTCCCA	CGGAGTGGCA	AGACTGGCTG	480
AGGCCTAGCT	CTCTAAAACG	GTGGGGGAGG	GGGGAGCGCC	CTGAGAGAGG	CATTCTACTA	540
ACCCACCCC	AATCACCCCT	ATTTTACTC	TTTCTACTTT	CGGAATTGGA	AAGAACGACA	600
CTCGAG						606

(2) INFORMATION FOR SEQ ID NO:1299:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 267 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1299:

GAATTCGGCC	AAAGAGGCCT	AGGAGTGATG	TTCATTTTGG	GATTTGCAGG	GTGCATTGGA	60
GCGCTACGGG	AAAACACTTT	CCTTCTCAAG	TTTTTTTCTG	TGTTCTGGG	AATTATTTTC	120
TTCTTGGAGC	TCACTGCCGG	AGTTCTAGCA	TTTGTTTTC	AAGACTGGAT	CAAAGACCAG	180
CTGTATTTCT	TTATAAACAA	CAACATCAGA	GCATATCGGG	ATGACATTGA	TTTGCAAAAC	240
CTCATAGACT	TCACCCAGGG	ACTCGAG				267

(2) INFORMATION FOR SEQ ID NO:1300:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 414 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1300:

GAATTCGGCC	AAAGAGGCCT	AGTGTTTTCC	AATCAAGTTA	ATAAATATCT	GTCTTCGTAC	60
CAGGAAAAAT	TCAATATTAT	TTTAAAGGAG	AAAAATAAG	AATGTATTGG	TAAAATGCTT	120
TCTCTCACTT	CGAAATATCT	TAGTGAACAA	GAACACTGAC	ATAGAATTAA	AATTCTATGA	180
ACAGCCATAA	CCAAAGGAAT	CTCATTTAGT	GAATATTAT	GTCCAGTAAC	TGCAACCCAC	240
ACTTAGAGCT	ATCCTTTTGC	TTAAAAACAA	AAATTTGGGC	CTTAAGAAAGT	GATTAATATC	300
AGGCAAAAAT	AAATTATACT	TTTGTTTATT	TATTCAGGGC	CTTGCTCTGC	TGCCCAGGCT	360
GGACTGCAGT	AGTGCAATCA	TAGCTCACTG	CATCCTTGAA	TTCTTGGGCT	CGAG	414

(2) INFORMATION FOR SEQ ID NO:1301:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 284 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1301:

GAATTCGGCC	AAAGAGGCCT	AGTGAAGTTT	ACTGTGATTC	TATGGAACAA	TTGGACAAG	60
AAGAGTCTTT	AGACAGCTTT	ACGTCCAACA	ATGGACCATT	TCAGTATTAC	TTGGGTGGTC	120
ATTCCAGTCA	ACCCATGGAA	AATTCTGGAT	TTCTGGAAGA	TATTCAAGTA	CCTCCTGGAA	180
ATGGCAACAT	TGGGAATATG	CAGGTGGTTG	CAGTTGAAGG	AAAAGGTGAA	GTCAAGCATG	240
GAGGAGAAGA	TGGCAGGAAT	AACAGCGGAG	CACCACAAC	CGAG		284

(2) INFORMATION FOR SEQ ID NO:1302:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 193 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1302:

GAATTCGATT GAATTCTAGA CCTGCCTCGA GCCTGTGCGA GAAAAGTGAA CGCCAGTCTA	60
AAAAAAAAAA AAAAATCTAA AAGAAGCCAA AAATCCACTT GTAATGAGAT TCATAGACCC	120
CTTATTATA CAACTCACAT ATTTGAATTT TTACATATTG AATTTTCTTT TAAAGGGGTG	180
GAGGGGTCTC GAG	193

(2) INFORMATION FOR SEQ ID NO:1303:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 305 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1303:

GAATTCGGCC TTCATGGCCT AGGGATACAG CAACTATTTT ATCAATTGTT TGTATTTCCC	60
TTTAAGGTAA CATTTTAAAT GAAATGTATT ATATTTTAAT CTATCCTTTT CCTTTGTTTT	120
TGTTCTTATT ATCTCTTCTG ATATATAACC AAAAAATGAA AAAATCTGTA CACTTGGTGT	180
TTGATTTACC TAAGCACCTA GTTAATTTAA TCTTTGTAAC ACTTTGGATG GTTAACTTAA	240
CCTTTACTCA AGTTGGTTTT TGTTTGTGTG AAAATGACTT ACTTGGTGGA ACCACTACTC	300
TCGAG	305

(2) INFORMATION FOR SEQ ID NO:1304:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 416 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1304:

GCAGCGAGCA GTATACCAGC AGCAGCAAGC GAAAGGAAGA GTTTGCTGAT ATGTCAAAG	60
TTCATTCACT GGAAGCAAT GGGCTTCTGG ACTTTGATTG AGAATATCAG GAGCTCTGGG	120
ATTGGCTGAT TGACATGGAG TCCCTTGTTG TGGACAGCCA CGACCTGATG ATGTCAGAGG	180
AGCAGCAGCA GCATCTTTAC AAGCGATACA GTGTGGAAAT GTCCATCAGA CACCTGAAAA	240
AGACGGAGCT GCTTAGTAAG GTTGAAGCTT TGAAGAAAGG TGGCGTTTTA CTACCAAATG	300
ATCTCCTTGA AAAAGTGGAT TCAATTAATG AAAAATGGGA ACTGCTTGGG GTATTTGCAT	360
TTTTATTACT GTTTGTAGGT TATGTGTACA TTTTGTGCGT AGTGAAGTCA CTCGAG	416

(2) INFORMATION FOR SEQ ID NO:1305:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 345 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1305:

GAATTCGGCC	TTCATGGCCT	ACCAATGTCC	TGCACATTGC	CAGACTTCCA	AACAGGTACA	60
AGTTCCCATC	TGTTCTGCAA	TAGATGAAAG	CAAGTCACAG	TTCCCAGGGC	TACCAGTGTA	120
ATTTCTCAAG	TGGCCAAGTT	ACCTGGCTTC	ATGGCTTGAC	CTGCTGTGTT	CTTTGGAAA	180
TGGAGAATGC	CTGAGGGCTG	TCTCTAACAG	AAGGGTATGT	GGCAGTATAT	TACAGAATTT	240
ACAAGAAGCA	AGGTGCAAAT	GAATTACATT	GAATTTTATT	GTTAAGAAGA	GATGATTTAA	300
AATTTGGTAT	TTAACAACAT	AAACGACTTT	GGGGCCCAAC	TCGAG		345

(2) INFORMATION FOR SEQ ID NO:1306:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 209 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1306:

GATTTCTCTC	AGCTTTTATT	TGTTTGAAAA	ATTTTTTAAT	TCACCTTCTT	TTTTGAAAGA	60
TTTTTACTGA	TTATAGAATT	CTAAGTAGTT	TATCTTCTTA	GGACTGTGAA	CATATAATTC	120
TACTGTCTTC	TGGCATTAT	AGTTTCTTTA	TTTTATTTTT	TATTGAAAAA	CATTTTTTTT	180
GAGACATGGT	CTCACTCAGA	ATACTCGAG				209

(2) INFORMATION FOR SEQ ID NO:1307:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 251 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1307:

GAATTCGGCC	TTCATGGCCT	AAGCTTTTGC	TTTTTTAATA	ACTGTATAG	CTAAAACTT	60
GACGGTGAAA	AGCTCTCAGA	TCAAAGCTGA	TCCTTCTGTC	AGTAATGATT	CTAAAAATAA	120
GCAAGATTTT	AATGGGGAAT	ATATTTTATT	TCATTCTTAT	CTCAAACCTA	GGTACTGTGG	180
TCGTTTGTAG	TTCATTTTGA	GGCATTTTCA	ATGTGCCTCA	GGCCACATCC	AACCTCTCCC	240
CAGAACTCGA	G					251

(2) INFORMATION FOR SEQ ID NO:1308:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 317 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1308:

GAATTCGGCC	TTCATGGCCT	ACCTGACTCT	TGAGATACTG	ACTGGAAGAT	AGACTGTTTT	60
GTTCCACCTG	ATTGTATGGG	AGAAATTTTT	GACCTTAGAA	AGTGGAATG	AGGTTGCTAT	120
GGAAACTGGT	AATTCGCTG	CCACTCATAA	ACTCTTCTGC	AGGTGATGGT	CTTTAAGCC	180
GTCCTATTTT	TACTCAGGAG	CCACATGATG	TCATTTTTC	TTTGGATTTA	TCAAAATCTG	240
AGGTCATCCT	GAATTGTGCT	GCTAACGGTT	ACCCTTCGCC	TCATTATAGG	TGGAAGCAAA	300

ATGGCACAGA ACTCGAG

317

(2) INFORMATION FOR SEQ ID NO:1309:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 412 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1309:

```

GAATTCGGCC TTCATGGCCT ACACAGTATC ACTAAAAGAT TTTCATTCCG AAGATCACAT    60
TAGTAAAAAG ACTGAGGAAG TGGTTCTGAA AGATGGAAGA ATTGAAAGAC TAAAGTTAGA    120
GCTTGAAAGG AAAGATGCTG AAATCCAGAA GCTGAAAAAT GTAATCACTC AATGGGAGGC    180
AAAGTATAAG GAAGTAAAGG CAAGAAATGC ACAATTATTG AAAATGCTTC AGGAAGGTGA    240
AATGAAAGAT AAGGCAGAAA TACTTCTGCA AGTTGATGAA TCACAAAGTA TCAAGAATGA    300
GCTCACTATT CAGGTGACTT CACTTCATGC TGCATTAGAA CAAGAAAGAT CTAAAGTGAA    360
AGTATTACAA GCAGAGTTAG CCAAATACCA GGTGGCAGA AAAGGGCTCG AG              412

```

(2) INFORMATION FOR SEQ ID NO:1310:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 239 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1310:

```

CTCGAGTGTG GTGGTATGTG AATTATATCT CAGTAAAGCC ATCACAGGGC AGAAGAAAAA    60
GAGAAAAAGAA AAAGAAAACC TTCGAGGAAG TCCAACAAAA AACATGAGGA AGAAAAGGTG    120
AGAGCCTGAG GATCCACACA GCAGGTACAG CAACTAACTG ACAGAAATTC TAGAGCCAGA    180
CAACAATGAC TAATCAAACT AACCTCAAAA CAAATGATTA GGCCATGAAG GCCGAATTC    239

```

(2) INFORMATION FOR SEQ ID NO:1311:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 278 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1311:

```

GAATTCGGCC TTCATGGCCT ACAAGGAAGC ACAAGGAGAA AATTATGATG AAATGGAGCA    60
AAACAGGTAA GAGAGAGGGT CAGAGAAGTG AATGTGGGCC TTGATGCTGA AGCCATTGGA    120
GGGTTTTCTG TTGAGGAGGA GTATGGGAAT GATATGATCT GACTTATGTT TCAAAAAGTG    180
TACTCTAGCT GCTTTGTGGG AAATATNGGA GGGAGAGAGC AGAATCAAGG AGGCCATTTA    240
AAATGCCATT GCAAATATCC AAGAGAGGCG GACTCGAG              278

```

(2) INFORMATION FOR SEQ ID NO:1312:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 247 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1312:

GAATTCGGCT TCATGGCCTA ATCACATATG GTAGAGATTT TATACAGAAT TTTAAAATGT	60
GGCATTAAAA AAACCTGTTC CATGGAAC TGCTTTCAGA GATTTTAAAT AAGTGTTCCT	120
CTCACATAGG AACCTAAGCT TCTCAGAGCT TTTAATAGGC TTCTAACAGG CTAATAGTCA	180
AGGCCGTGAC CCAAGAAGGG ATATAGTTCA CAGTGTTC CACAAATATT TCACCCAGA	240
GCTCGAG	247

(2) INFORMATION FOR SEQ ID NO:1313:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 311 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1313:

GAATTCGGCC TTCATGGCCT AGGGTCTTAG CTTTGGCTCT CCTTGCAAAG TTATTTCTAG	60
TTAATTCATT ATGCAGAAGG TATAGGGGTT AGTCCTTGCT ATATTATGCT TGGTTATAAT	120
TTTTCATCTT TCCCTTGCGG TACTATATCT ATTGCGCCAG GTTTCCTCTG TCTCAAAAAA	180
AAAGAAGTTA CTTCCAAGAC AGACTTTTAA GATGTAACCA GCACAAAGCA ATGTCAGGGA	240
GGAGTGATAC ATGACAATAA ATGAGTCAGA TGAGCAAGAA GGCCCCAGAA CCCATGCCCC	300
CAGGACTCGA G	311

(2) INFORMATION FOR SEQ ID NO:1314:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 261 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1314:

GGGGAGCTGC AAACGCCCCG GATACTGTCA GAGATGGAGA AAGGTATGAC AGGAAGAGCA	60
GATCAAGAAG ACGGAACAG CACGAGGCAC TGGGAGCTGC AAACGCCCCG GATACTGTCA	120
GAGATGGAGA AAGGTATGAC AGGAAGAGCA GATCAAGAAG ACGGAACAG CACGAGGCAC	180
TGGGAGNTGC AAACGCCCCG GATACTGTCA GAGATGGAGA AAGGTATGAC AGGAAGAGCA	240
GATCAAGAAG ACGAACTCGA G	261

(2) INFORMATION FOR SEQ ID NO:1315:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 326 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1315:

CTCGACTTGC	ACGAGGAGTG	GCAGGATTAT	CTGCAGAGGG	ACCATTGGGA	CAGCTAGTAA	60
GGCCAGGTGC	TCCTTAGGCA	CCCCTTCTTC	CACCAGCTTC	AGGCCTGTCA	CAGCATCAGC	120
TGCTGAGAAG	CCAATCTTTG	ACGTTAGAAT	CAGAAGGCAA	AAGGCCAGAA	CTGCTGGCAT	180
TTTATAATT	GAGAATAGCA	GCTTGTAAGT	GTCTGTGATC	CCTTGGGTCT	CTTCTTTTAC	240
TATTGACGCT	TCTCTGTTTT	CTTTTTTCAG	AAGGGCTACT	AATGTTGTTG	TTATTAAAAA	300
TACAGTAGGC	CTCTTGGGCC	GAATTC				326

(2) INFORMATION FOR SEQ ID NO:1316:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 244 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1316:

GAATTCGGCC	TTCATGGCCT	AACGTCACCTC	ACTGTCCTTC	TTAGTATCTA	ATTCTCCTTC	60
ACCTAATAGA	ACAGCAAATT	CTTTGAGTTT	AGGATCCTTA	ATGCAGTGTA	AATATTGCCT	120
TTTATCCTTC	TTCTCAGCTA	TGGTCTCAAT	TCAAATCATG	AGGACCATTG	TGGTGGCTCC	180
CGAATGGCCT	CACTGTTCCT	CTCCTTCCCC	ACTGCGCTAC	AGTCCATTCC	CCAGTGCCTC	240
CGAG						244

(2) INFORMATION FOR SEQ ID NO:1317:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 149 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1317:

GAATTCGGCC	TTCATGGCCT	AGAAAGGTTT	GCCTGGTAAG	ACTGAACTGT	TCATAGTTCT	60
TTAAATAAGC	TACAATATTT	CCTAATTGTG	TACCCTTGAT	TTTACTGTTT	TCTTGGCCTA	120
GAATGCTGTT	TCTATCATTC	TTCATCGAG				149

(2) INFORMATION FOR SEQ ID NO:1318:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 302 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1318:

```

GAATTCGGCC TTCATGGCCT AGTCAGCAAA GCAAGGGGAG GCAGACCACA GGCCTCATGA      60
CTCTCACTGG AGTGCAATGG GACCCCATG GGGTGAAAGC AGAGGAGTGA GCTGCTCTGA      120
TGTGAGCACT CACTCTGCTT GCCATATAGT GAGTAGACAG GAGAGACCAG GGCAGAAGTA      180
AGAAGACCCA TCAGAGGCTC CTCAGGAACC CGAGTGGGAG ATGGTGGTGG AACAGGGTTG      240
TAGTAGTGGC AGTAGTAAA AAATGATCAG GTTTTGAAA TATTTGGAAG GTCGAACTCG      300
AG                                                                 302

```

(2) INFORMATION FOR SEQ ID NO:1319:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 219 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1319:

```

GAATTCGGCC TTCATGGCCT AAGAAAAA GAAAGAAAGA AAAAGAAAG TACAAGTTTA      60
TAAAGTATTA TAGTGAAAAA TTCGCATTCT GGCTGATTTT AAGCCATTTA AAATTATAT      120
AAAACAACCT TCCATAAAAA TTTGACAGGT GCCCAGATGT TGCTTTCTCC ATTTATTTT      180
TGTTTTTTT TAATCAGAGT GGTCTTGAGG CAGGTCGAG                                219

```

(2) INFORMATION FOR SEQ ID NO:1320:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 361 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1320:

```

GAATTCGGCC TTCATGGCCT ACTGAGTTAG GTTTTATTAA TGCAGTTTTT ACAGATGAGG      60
CTACTGTGAC ACAGAGGGCA TAACTTGTC AAAGACATGC AGCAAACAGG ACAGACAAAT      120
CTGAAGCCAG GTTGTCTAAG CTCAGAATCC ACACCTATAA CCGCTGTACC CCACTGCTTT      180
TGCCAGCAGG AGCTCACGTA CTTAGGACAG ACAATCAGTA CAGTGCTAGG CTCACTGAAG      240
GTGTTGAACA AATGTCTGTT CACTCTTTT GTTCTCAAAA GTACCAGGAA AGGCCAGAAG      300
AAAAAATAC AAGACTTAGA AACTACAATG GATCAGATCA CTCAGTAGCA CCTCACTCGA      360
G                                                                 361

```

(2) INFORMATION FOR SEQ ID NO:1321:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 66 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1321:

```

GAATTCAAAC GAAAGCCAGC TGAGAATACA GGAAACATGT TTCCAGCCAA ACCCAAACA      60
CTCGAG                                                                 66

```

(2) INFORMATION FOR SEQ ID NO:1322:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 317 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1322:

```
GATTGAATTC TAGACCTGCA GCTACAGAAG TCAAGATTCC AAAACCAAGA GGCAGACCCA      60
AAATGGTAAA ACAGCCCTGT CCTTCAGAGA GTGACATCAT TACTGAAGAG GACAAAAGTA      120
AGAAAAAGGG GCAAGAGGAA AAACAACCTA AAAAGCAGCC TAAGAAGGAT GAAGAGGGCC      180
AGAAGGAAGA AGATAAGCCA AGAAAAGAGC CGGATAAAAA AGAGGGGAAG AAAGAAGTTG      240
AATCAAAAAG GAAAAATTTA GCTAAAACAG GGGTTACTTC AACCTCCGAT TCTGAAGAAG      300
AAGGAGACGA TCTCGAG                                     317
```

(2) INFORMATION FOR SEQ ID NO:1323:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 106 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1323:

```
GAATTCGGCC TTCATGGCCT ACTGTAAGGA GGAGATGAAA GAATTAGTAG AAAAGGTTTT      60
AAAAACAGTT ATTATAACTA TATTCCATAT GCTGAAGGCG CTCGAG                      106
```

(2) INFORMATION FOR SEQ ID NO:1324:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 257 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1324:

```
GAATTCGGCC TTCATGGCCT ACTCCTTTAT TTCCTTTGTC TGTAGAATAA AGTCTTAGAA      60
TAATATTCTT GTTAAGGCCC TGCTTATCCC AATACCGTAT CCATACTGAA CTTTCAGTTC      120
TTTATATGCA CTCTACTCTC TGTCTTTCAG ATTTTTCAG GTATTCCTTT AGAACACTCT      180
TTCTCTTCCA TCTTATCGCC TACTCTTTGG GTTCTGTGTT AAACATTACA TTTCTCGGTG      240
GGGGGGCTTA TCTCGAG                                     257
```

(2) INFORMATION FOR SEQ ID NO:1325:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 78 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1325:

CTCGAGACCG CAAGCACTTC CCACCTCATC CTTATTCTCT CTATCCCTTT TCATTGTTTT	60
TTTCTCCTTT TTAAATTC	78

(2) INFORMATION FOR SEQ ID NO:1326:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 312 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1326:

GAATTCGGCC TTCATGGCCT AGAATTGTCC TCTGTGGAAG GGACTTTCTT TTGGCCCTAG	60
GCCCCTTCTT GCCCCTGTCT TCAGCAGAGA GATGGAAAAC TTGATGACTA GCTCCACCCT	120
ACCGCCCTTT TTTGCAGATG AAGACGGTTC CAAGGAGAGT AATGATCTGG CTACCACTGG	180
GTTAAATCAC CCAGAGGTTT CATAAGTAG TGGCGCCACA TCATCCACCA ACAATCCAGA	240
ATTGTGGAG GATCTCTCTC AAGGTCAGTT GCTTCAGAGT GAGTCTTCAA ATGCAGCAGA	300
AGGCACCTCG AG	312

(2) INFORMATION FOR SEQ ID NO:1327:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 411 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1327:

GCGATTGATT CTAGACCTGC CTCTCCTTCA AGCATTGCAG CAAACAATTG TACTGTGAAT	60
ACGTCATCAA TTGCAACGTC TTCAATGAAG GGTCTTACGA CTACAGGAAA CTCGTCTCTT	120
AATAGCACAT CTAACACTAA AGTATCAGCA GTGCCTACAA ATATGGCTGC CAAGAAAACA	180
TCTACCCCA AAATAAATTT TGTGGTGGT AATAAGCTGC AGTCAACAGG AAATAAAGCA	240
GAAGACACAA AAGGAACCGA ATGTGTTAAA AGTACTCTG TCACTTCTGC TGTGCAGATT	300
CCTGAAGTAA AGCAAGACAC AGTGCAGAA CCAGTCACAC CTGCATCTCT TGCTGCTTTA	360
CAGAGTGATG TGCAGCCAGT GGGCCATGAT TATGTGGAAG GGATACTCGA G	411

(2) INFORMATION FOR SEQ ID NO:1328:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 286 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1328:

GAATTCGGCC	TTCATGGCCT	ACTTTTTCCT	TGGTCAGATC	ACAATGCTCC	TATAAATGTT	60
TCACATAACA	TGCTTACTTG	TGGGTATACC	CTCCTTATCT	CCTCAGGGGC	TAATTTTGGG	120
AAGGGACTAC	TGTCCTTACT	TTAAAGTTAA	ATATAAACTA	AATTCCTTCC	CTAGTTAGCT	180
CAGCCTACGT	GCAGAGATAA	GCAAAAGTAG	TTAACCTAAA	AGATATCACC	CTTTGGGGGG	240
TGTCAGAGGC	AAAATAGAGT	CAGTCATGCT	AAGCTCCCCT	CTCGAG		286

(2) INFORMATION FOR SEQ ID NO:1329:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 340 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1329:

GAATTCGGCC	TTCATGGCCT	AGGGGGATTG	AAGATTTTTT	GTAGGTGGAA	GGCCTGAAGT	60
GCGACTAGAG	GGCAATAAAT	TCAAGGTGGG	AGACTGTCTG	CTGATGTTCA	TTCCACTGGG	120
CTGTTTATGG	ACTGGGCTGT	TAGTGCTGGA	GTGGCTACCC	TGGGCAACTA	GTGCATTTGG	180
ACTGGAAC TA	CTTGGGGATA	CAGTAGGCTT	GGGAGTTGGG	TTGGATTAG	AAATAAGTTT	240
AGTTGATACT	GAAGGCTTAG	CTGACAGAGA	GGGCTTGGGT	GAGGCAGAAG	GCTTAGGCGA	300
GGGCAGGGGT	TTAGGAGATG	TGGCAGGTCT	AGAATTCGAG			340

(2) INFORMATION FOR SEQ ID NO:1330:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 297 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1330:

GAATTAAAGA	GGGCGATATC	ATCACACTCA	CTAACCAAAT	TGATGAGAAC	TGGTATGAGG	60
GGATGCTGCA	TGGCCATTCA	GGCTTCTTCC	CCATCAATTA	TGTGGAAATT	CTGGTTGCCC	120
TGCCCCATTA	GGATGTTATG	CTGGCTGGCT	CGCCTCCTCT	TGACCCAGAT	AGTTACGGTT	180
AACCACTGCT	TTGGCAATGC	TGCTTATAAC	ACATCCCAAG	TGCAGGCCGC	AGTGGTCCAC	240
GTCTATCCAGC	CCCACCAAGT	GACTTTGGTT	GACTTGTGGG	CTCCACAGG	ACTCGAG	297

(2) INFORMATION FOR SEQ ID NO:1331:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 355 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1331:

CTCGAGTCCG	CTGAGCTGAG	AAGCACTGCG	ACTTTTCCGT	GACAGACCAA	CGATAGCTAC	60
CATTTTGGCA	CCAAGGCTAG	AGCGCCGCTT	TTTGCCACTG	GTGCCCAAGG	TGCCCACTGC	120
AGTGTGAGAC	TGGCTGCCAT	CAITCTTCTC	CAGTGAGCAC	ATGTCTCCAC	TGATGCTGGT	180
GCTTTTGTGC	ATGTTCTTCC	CTGATATGCC	CATTGTCTG	CTTTGCATTT	TGATGTAAA	240

GAACTGTCA GCCGATGGAT CATTAAAAGT GAGGACAAGA GTAAAAAGGA AAAGACAGAA 300
AATGCATTTT AGATAAAACA TTTGGAGTAT AATTTAGGCC ATGAAGGCCG AATTC 355

(2) INFORMATION FOR SEQ ID NO:1332:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 438 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1332:

GAATTCGGCC TTCATGTGCG GTGAAGGTCC TGTGATTGTA CAGTTAGCAC ATTTTATATG 60
ACAGTATAAT CTAAAAAAT AACATAGAAA CAGAAACATT AGAAACGTAA GTCACAGTTT 120
GTGAGTATGT CATTTTITAG GGAAAAATAA AATATAGTAA CGATTATGA GGGCCCAAAG 180
TTTTATATAA AAATGAAAAA GCTGTTTGGC AGTTAGGACT GACTGTAGCC TTCTGTCAAA 240
TCAGTCTTGA CAACTGTTAA AAGACATTAT CATCAAAAT AGGGCTGCAT TTCACTCTGT 300
CTGTCAAATA CAATCAATAT ATATGACTTT AAGAAAGTGT GACCATTTTC CCAGAGTGAC 360
ACCAACAAGA TGGTGGAAATA GGAATTTTGT TTTAACTTTA CTCACCTCAC AGAAATCCAA 420
CTAGCAACTA ACCTCGAG 438

(2) INFORMATION FOR SEQ ID NO:1333:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 309 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1333:

GAATTCTAGC CCCACCCACT TTCTCAGACA TCCCCACCGG AGGATCCCAT CAGTCACAAT 60
CCTCACTAAT TAGACCATTG AAATTCCTCA AAATAAAAAA AGGGAAAGAG GTATAGACTT 120
ATCTTAAGGG TCTTAAGTTC TGGCATTITT CTATTIAATA ATATATATTG CTATAAAATG 180
GAATTACTAC CAAAATTTAG AAAATCTTTT AGCAGAAGAT ACAGCCCTAA TCTTACCACT 240
CCAGTACAAT CATTATTGAC ATTTATGATG TACTTCGTTA TAGTATCAAA ACAATCCAG 300
TATGTGAAC 309

(2) INFORMATION FOR SEQ ID NO:1334:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 243 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1334:

GCGATTGAAT TCTAGACCTG CCTCGAGCTG CCGTGTITTT CATTTTAATT GTGTGACATA 60
AAATGTAAAA TGTACCCTCT AAACCATTIT TTAGTGTTCA GTTTGTGGT ATTAAGTACA 120
TTCACATTAT TGTGCAACCG TCCCACCAT CCATTACAG AACTCTTTCA ACTTGCAAAA 180
CTGAAACTGT ATGCATTAAG CAATAACTAT CCCTTCCTTC TTTCTCTTC CCCAGAGCTC 240

GAG

243

(2) INFORMATION FOR SEQ ID NO:1335:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 280 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1335:

```

GAATTCGGCC TTCATGGCCT AATTCTGGGA AAAGTGAGAG AAAAATCTGA GGCCATCCAG      60
AAGGAACTAG AACAGACCAA GCAAAAAACA ATCAGTGCGG TTGGTGAGCA GCTCCTGCCC      120
ACAGTCGAGC ACCTCCAGCT GGAGCTGGAT CAGCTAAAGT CAGAGCTGTC CAGCTGGCGA      180
CACGTGAAGA CCGGCTGTGA GACAGTGGAT GCCGTACAAG AAAGAGTGGG CGTGCAAGTC      240
AGAGAAATGG TGAAACTCCT GTTTTCCGAA ATAGCTCGAG      280

```

(2) INFORMATION FOR SEQ ID NO:1336:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 281 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1336:

```

GAATTCGGCC TTCATGGCCT ATAGGCCATG AAGGCCGAAT TCGGCCTTCA TGGCCTAGAC      60
TAATCTTACT GTAGAAATGA TGTGAGATTC TTGTTTGACT ATTTTAGAGC AGATTCCGTA      120
TCTAATGGGA TTCCATCTTG ATGTACAGAG CACCTTCTAC ATAATGAATT TTGCATTTC      180
GATGGATGAA GCCTTTAAAC CAGACAGAAT TTAAAGTATT GCATATTCTT GGAAGAAAAG      240
CATTGATCAC ATCCTCCTTA GATATTTAGT AATACCTCGA G      281

```

(2) INFORMATION FOR SEQ ID NO:1337:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 172 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1337:

```

GAATTCGGCC TTCATGGCCT AATATTTAGG TAAAAAGGTA AACTAGTACA CCTACCAGAA      60
AAGATAAATA TTAATTTATT GCATCTCTGA CATGAGAAAA AAAGCCTTTA TGTTTTACTG      120
TTTTTTTCTA ATTTTCTTTT TTCTTTTTTT TTTTCACATG AATGTTCTCG AG      172

```

(2) INFORMATION FOR SEQ ID NO:1338:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 235 base pairs
 - (B) TYPE: nucleic acid

(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1338:

```
GAATTCGGCC TTCATGGCCT ACTGTATTTT ATAGTGAAGT GTTCATAAAC TAAAGAGTCA    60
TTGATTTGGT TTCCTGGCTA ATTAAAATCT GAATTCCTT TGAAGTTCCA TTGAAATCAT    120
GGTTTTACTC TATAGCAGTG GATGTTTTTT CCCAACCTTT CTGATATTTT TTTCCTTCCT    180
GAGACAGGGT CTTGCTCTGT CACCTGGGAT GGAGTGTAGT TGCACCAAAC TCGAG      235
```

(2) INFORMATION FOR SEQ ID NO:1339:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 148 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1339:

```
GAATTCGGCC TTCATGGCCT ACTTGTTTTT AAAGGCATAT GTTGTTTTAT TGTGCTTCAC    60
AGGTACTGTA TCCTTTTTTA CAAATCTAAG TTTGTGGCA ACTCTGTGTC AAGCAAGGCT    120
ATTGGCCCCA TTTTCCCAAC AAGCAGCG      148
```

(2) INFORMATION FOR SEQ ID NO:1340:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 257 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1340:

```
GCCTGTGTGA AGTTTTGACT TTAATCTACC AGATCACTCC TTCACCCTCC ATAAAGATGT    60
CTGAACCTGA CACTTCCTCA GGATTTTCGG GAAGTGTGGA GAATGGAAC TTTCTTGAGC    120
TGTTTCCCAC ATCCCTGTCC ACGTCAGTGG ACCCATCCTC AGGCCACCTG TCAAACGTCT    180
ACATCTATGT GTCCATATTC CTCAGCCTTT TAGCGTTTCT GCTTCTGCTT TTAATCATTG    240
CCCCCAGAG GCTCGAG      257
```

(2) INFORMATION FOR SEQ ID NO:1341:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 259 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1341:

GAATTCGGCC	TTCATGGCCT	ACTATAAAGT	ACTCTCGCTG	GTATTGTCAG	TATGTGTGTT	60
AACAACAATA	CTTGTTGTA	TATTGGGT	GAAACCAAGC	TGTGCCAAAG	AAGTTAAAAG	120
TTGCAAAGGT	CGCTGTTTCG	AGAGAACATT	TGGGAACTGT	CGCTGTGATG	CTGCCTGTGT	180
TGAGCTTGA	AACTGCTGTT	TAGATTACCA	GGAGACGTGC	ATAGAACCAG	AACATATATG	240
GACTTGCACC	AAACTCGAG					259

(2) INFORMATION FOR SEQ ID NO:1342:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 268 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1342:

GAATTCGGCC	TTCATGGCCT	AGTCCTTGAC	TCTGGAGTTT	TACAAAGCAG	TCACATTTC	60
AATAAAAGTC	TGGGAAAGCA	ACACATCATC	GCCAACTTTT	AATTTTGCTA	AATAAGGATA	120
TTAGAAAAAG	AATAGAAAAT	TGCAGTCCCT	TACTGTTTAA	AGAAAAACCA	AAAGAAGTTA	180
AAAAAAAAC	AACCTCATTA	TGTGTCTTT	GTTTTGTTT	TGTTTCTTT	CCTTGAAAT	240
CAGTGAAAGT	TTGGTCAGCC	ACCTCGAG				268

(2) INFORMATION FOR SEQ ID NO:1343:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 241 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1343:

GAATTCGGCC	TTCATGGCCT	AGCCATTTAA	TATACTAAAA	CAGTGTTGTA	AATTAACTTT	60
GGTACAAAT	GCCAGTCATC	TCTAGATCAT	TTAAGCATT	TTAAGAATAT	TTATTATCAA	120
TCTAAGTACA	GAAGAATAAC	TGCCAGCAGT	GATTATTGTC	TTTGGATTAG	AGTTTTTAAA	180
AATCCACCTC	ACTGAAATGG	TTATGTTTAT	CACAGTTTGC	AAGGTTTGTG	TGTTTCTCGA	240
G						241

(2) INFORMATION FOR SEQ ID NO:1344:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 313 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1344:

GAATTCGGCC	TTCATGGCCT	ACCCATTCTT	TCCTTCCTGC	CTGGCCTGGG	CCCCCTCTGC	60
ACAGATGGCC	TAGGTACCCA	GCCTGGAGGC	CAAGGCTGGA	TTCCCAGAGT	CTGCCCTGGT	120
GGAGTGGGAA	TAGCAGGTTT	TCTGCAACTC	AGGGGAGCTG	CCCTGCAGGG	CTTCCCACAT	180
GTGCTCAGGC	CCCTGTGCCA	GGTCTGGTGA	TGCTTCCTCC	TTGCCTTTCA	GGATCTCCTA	240
TTGCACAGCA	GACAAGATGC	ACGACAAGGT	GTTTGCATAC	ATCGCCCAGA	GCCAGCACAA	300

CCAGAGCCTC GAG

313

(2) INFORMATION FOR SEQ ID NO:1345:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 327 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1345:

```

GAATTCGGCC TTCATGGCCT AGGCTTCTCT TCTGAATTGA TTGGTAGTGT TGTTATTTTC      60
TTGTTATTCA GTTTAACAAG TACATAATCA ACATCAGTGC TTGGGAAGTC AGGAGTACGA      120
GAGATAAATA AGAAGTATAT GATCTTTTCT CTATTTTCT CTCAGTATAA GTTGGACCTG      180
TTTTTCCCTT CATCTCTTTT TCTTCAAGAA CATAATATCG GCTGAAGTGG AATGAGTATT      240
CAAATTGTCC AAAAAAATAT ACAAGTGAGG GAATTAATAA AATTTTGTGT AATTATAAAT      300
ATGTATATAT TGGGGGGCAG TCTCGAG                                         327

```

(2) INFORMATION FOR SEQ ID NO:1346:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 189 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1346:

```

GAATTCGGCC TCATGGCCTA AATCCTTGA AATACAATGA GACTCATCAG AAACATTTAC      60
ATATTTTGTA GTATAGTTAT GACAGCAGAG GGTGATGCTC CAGAGCTGCC AGAAGAAAGG      120
GAAC TGATGA CCAACTGCTC CAACATGTCT CTAAGAAAGG TTCCCGCAGA CTTGACCCCA      180
ACACTCGAG                                         189

```

(2) INFORMATION FOR SEQ ID NO:1347:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 262 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1347:

```

GAATTCGGCC TTCATGGCCT AGTGGGCTTC AGGAAAGCAA AATATAAATA TTATGGTTAA      60
AGAAITTTATA ATTAAGATTT CACCCATAAT TCTTAATACT GTGTTGACAA TCATGGCTGC      120
ATTGTCTCCA AAAACAAAAG AAGATGGATC CAAAGATACG TCTAAGGAAA TGGAAATCT      180
TTGGGGTATC AAATCGATTA ATGATTATAA CACTTGGTTT CTTGGTGTG ACACGGCAAC      240
AGAAATAACG GAAAAGCTCG AG                                         262

```

(2) INFORMATION FOR SEQ ID NO:1348:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 333 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1348:

GAATTCGGCC TTCATGGCCT AGTAATGTTA AAACAAACGA AATAAAAATA GAAGGAAAAA	60
CTTTCTGAGT TTCAAAAACA ACAGACTAGT ACTCTAAAGA ACTCTTTAAA ACAATTAACT	120
GTTAGGATTG CAGTTATGAT TGGATATTAT TTAATTCTGT TTCTGATGTG GGGTTCCTCC	180
ACTGTGTTCT GTGTGCTATT AATATTTACC ATTGCAGAAG CTTCAATCAG TGTGAAAAAT	240
GAATGCTTAG TGGATCTGTG CCTCTTATGC ATATGTTACA AATTATCTGG AGTTCCTAAT	300
CAATGCAGAG TTCCCTCCC CTCGCGCTC GAG	333

(2) INFORMATION FOR SEQ ID NO:1349:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 553 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1349:

GAATTCGGCC TTCATGGCCT AGGAAGACAG ATTTACAGA GAGTGGGTTT CATGTTAAAT	60
GTCTGATTTC CTGTGCGGAT GCCCCACAA GGACACTAGG TTTGTGGGC CAATGTGTTA	120
TGTGTGTATG TAGGCAAGCA GGAGGGGGTG GGTGGGCTTC TTTTITTTTC TATTTITTTTC	180
TTTTCTTTT TGGTTGTGGA AGAACCACGT TAACCCCTCT AATTTCTTTA AAAAGACATA	240
AGGTTTGAAA AGGAGATTTT AGGAAGAAGC AAAAGAAAAA AAATGGGATA CATATATTGC	300
ATCTGTAATC CAATCAAGCT GTCACGAAG ACAAACTGA TCTCTGTTCT CACCAGTTGA	360
CACACTCATC AGGCTATAGG TCAACTCTAA GTGTGGTGAC AGGTGATGGA CTCTATGCCA	420
ATTCTGATAC TGAATTTTCT TTTGCTTATT GAAGCTTCAT TTTGTGTGTT TTAATTATGA	480
AAGTATAGTA ACACCTACCA TGCATACCA AGCAATATCA ATATTTTCAA ATGCATCTTC	540
CCCCATTCTC GAG	553

(2) INFORMATION FOR SEQ ID NO:1350:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 246 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1350:

GAATTCGGCC TTCATGGCCT AGGTTTTTGT TGTITGTTT TAAAGGAGTT AGACATAGCC	60
TAACAAACTG GAAATTGACA TTTCCATCTA TTTTCTCCC TTTTGAAGCT AAATATGTCT	120
TTGTTATTTT GGTTCCTAGT CCCATTACT ACTTATTTTC TGATAGTTCA TCCACAGCAA	180
CTTCAGTCAG TTAGCTCACT AGTTCTTATG GCTAGAGATT CCGCCAGTTT TCCCCTAAAA	240
CTCGAG	246

(2) INFORMATION FOR SEQ ID NO:1351:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 231 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1351:

```

AAAGAAAAAA TAAAAAAA AAAAAAAA GGAAGTGTA TGTGAGACAC ACAAGAAAAG      60
CAAATCAGTG TTGTAAGCTT AAAGTACAAT TTCAAAGGTC ATTACCAACA GCAGGGTTTT      120
TTTATACCTT TAAAAACATT ATGCTACATA TCATTGCCAT TTTCATATTT TGGGGTTTTG      180
CTACTCTTAT ACAATGGAAT CAATGGAAAT GTCATCCAGC CAGATCTCGA G                231

```

(2) INFORMATION FOR SEQ ID NO:1352:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 260 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1352:

```

TGAATTCTAG ACCTGCCTCG AGTTGCTCCC AGGAATAGTC CAAAGGAGCT GCTCTTGCCC      60
CTTTATACAC AAGCGCCAGC AACCAAAACC CTCCCTCCTG GCAATAAGGC CTCACATATAG      120
TTGCCCTCAT GCTTCCTAAG CTCTCTCTTG CTCTAATAAC TCTAATCTG GGCCAAGCCC      180
AAGAGTGCCA TTCTTTCTTC CTAGCTGGGG ATGGAAAGCT GAGAGGGGCA CAAGGAGGGC      240
AAAAGTATCA CCCTATCGAG                                260

```

(2) INFORMATION FOR SEQ ID NO:1353:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 482 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1353:

```

GAATTGCCTT TCATGGCCTA CTTTCAAGT GAATGATTG GTGTTTGAAC CTTCTTGATT      60
ACCTTAAGAG GGAAAAATGA AGGAGAGGAG GGAACCATCA TCACATACCT TTACAGTTGT      120
GGAATGTTAG CCCACTATAG TGTTTAACTA AGGAAAATCT AATATAATAC ACTCCCAAGT      180
GATCTGAAAT GATCCGCTAT TCAGAAATCC AGAGAAAGAC ATATCCCTGC CAGAAGGGTG      240
TCCTTCATAA CCAAATTTGG TCTTCAGTCT GGTGCGTGCA TACTCAAACA GGAATCACTT      300
CCCTTAAGGA ACCTAAGGTA TGCAGTTGAG ATCAACTTAT TCCTTTTGA TTTGTCCCCT      360
TAAAGCATCA ATCAGACGTG AATGCATCTT GTGACTTGA GTTACTAGTA ATATTGAAAT      420
CTGAACTTG GGGGATCTTT GAAGACACAT GGGATTAAAA GCTGCATAAT ATACATCTCG      480
AG

```

(2) INFORMATION FOR SEQ ID NO:1354:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 339 base pairs

(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1354:

GAATTCGGCC TTCATGGCCT AATACCCAAA ATTGGCATGA CTACTTATAA AATAGTGCCT	60
CCCAAATCCT TGGAAATATC GAAAGACTGG CAATCAGAAA CCATAGAGTA TAAAGATGAT	120
CAGGACATGC ATGCTTTAGG GAAAAAGCAC ACTCATGAGA ATGTGAAAGA AACTGCCATC	180
CAAAACAGAAG ATTCTGCTAT TTCTGAAAGC CCAGAAGAGC CACTGCCAAA CCTTAAACCG	240
AAGCCTAACC TGAGAACAGA GCATCAAGTG CCCAGTTCTG TGAGCTCACC TGATGATGCC	300
ATGGTTAGTC CTCTGAAACC TGCTCCCAA AATCTCGAG	339

(2) INFORMATION FOR SEQ ID NO:1355:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 203 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1355:

GAATTCGGCC TTCATGGCCT ACTTTTAGAT GCTTTACATG CATAAATTCA AATAATACAT	60
TAATAACCTT CCATACATCT TTCTTTGTGT ACAGGTTACT ATTTCTGTAA GATAGATTTC	120
TAAAGTGGA ATTTCTAGGC CAAATGATT ACACTTTTTT TGTGTGTG TTTTTTGT	180
TTTTTGAGAC GGAGTGTCTC GAG	203

(2) INFORMATION FOR SEQ ID NO:1356:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 516 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1356:

GAATTCGGCC TTCATGGCCT AGGAGAATCA GGCAGGGAGG TTGCAGTGAG CCGAGATGGC	60
AGCAGTACAG TCTAGCTTCG GCTCGGCATC AGAGGGAGAG CGTGGAAAGA GAGGGAGAGG	120
GAGACCGTGG GGAGAAGGAG AANGAGGGGG AGGGGGAGGG GGGGAGAGGG AGAGGGACAA	180
TGATGTCTTG CTGTAGGTAT TCTTCCCAT TTGAATTTT TCCTCAGCAT TATTTTTTTT	240
AACATCATTC AGTCTCCTCT TATACTACAC TTGGATTGAA TTTAATATCT CATGAAGAAA	300
AAACATTTCT ACTTTGAAGC ATGTGAATTA GCATGTTTT ATAACAGCTT TATTGAGATA	360
TAATTTACAT ATATAAATAA ACCGTTTAAA GTGTATAAAT CAGTGGTTTT TAATGAGATA	420
TAATTTACAT ATATAAATCA ACCATTTAAA GTGTATAAAT CAGTGGTTTT TAAATATTC	480
ACAATGTTGT ACGACCGTCT TCTCAGTCAA CTCGAG	516

(2) INFORMATION FOR SEQ ID NO:1357:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 405 base pairs
(B) TYPE: nucleic acid

(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1357:

GAATTACTAA TCAAGAAAAA ACAAATCAC AAATCACTAC CAAAGCAGTT CATTGTCAAT	60
AATTTTTTTC CCTTGTATTT TTGTTTACTT TTTGCGAACC CTGAGCATAC ATCCAAGTTG	120
CCCTAAATAT ACGCACACCT GAGGTGTCT TTATAGGAGC TTTATGGTTC CAAGTTTTGT	180
GTATAATCTT TAATCATTTT GAGTTGATTA TTGTGTATCT AGTACCATAA GAGTCCTGTA	240
TTATTCTTTT GCATATGGAT ATCTAGTTT GGAAATCTTC CCGTTGTGT CATTGTGGTG	300
GTGTTTGA AAATGTGTTT ATTCCATATA AATTTTGT TATTATCGAG CACATTCATT	360
TTGCTCACTG GTCTGTGTTT CTCTGTGTAC GCCAGTAACC TCGAG	405

(2) INFORMATION FOR SEQ ID NO:1358:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 328 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1358:

CTCGAGTCTG GCTTTGTTTC AAAATGATTA AGATTAAATG ATGAAATAAT ATTTTATAGC	60
CACTGCATTG GATACTTGA TTGTTTTTCA AGCATCTTCT TATGACTAAA TCTTCTGTTT	120
CATTCTGTTT TAAATCTAAA AAGTAAAATG ATGGTCACTT GGAATCTGCT CTATATTTTA	180
ATTATAGTCT CTTCTGTTTA TAAACAATAA CTTACACATA TTTTTCATAG TTTTAAGTAA	240
AGATTAAATA ATGCCATCTT AGAAAGGATC TGTTAACCT ATATTATAAA AGTTAGATAC	300
ACAAATTTAG GCCATGAAGG CCGAATTC	328

(2) INFORMATION FOR SEQ ID NO:1359:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 250 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1359:

CTCGATGGCC TAAGGCAGTC TCCTGGAAGC ATGACATTGA TGCCCTGGGC TCACCTCTTT	60
GTTTTGTTTT CCTTCACTT TAGCGGAAC CACATCTTCA AGGGCCGTGC TGCCGGCATA	120
GCAGTGAATG AGAACGGCAA AGGCCTCATC ACAGGTACGG ATGGGAACCT CTTGGCACCT	180
GGCAGCCAGG CCAAGGTCCC CTGGCGTCAC CCCCAGCTT CAGGACCTCT AGGCCATGAA	240
GGCCGAATTC	250

(2) INFORMATION FOR SEQ ID NO:1360:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 206 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1360:

GAATTCGGCC	TTCATGGCCT	ACGATTCTAT	TTCCTTATCT	GCTTGCAGAG	CTATTTAAGA	60
ATCAATGTCT	TATTTTTCCT	GAGTCCTTTA	TAACCCTATT	CATATTTTCA	ATTGCTGATG	120
CCTCTTTGAG	CTACGAGTTC	TACTTTGTGC	ATAACGTTGA	GGAATTTCTA	CGTTTACTGT	180
TTCTCCTTAC	TTCACTCATC	CTCGAG				206

(2) INFORMATION FOR SEQ ID NO:1361:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 377 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1361:

GAATTCGGCC	TTCATGGCCT	AAGAAATCAA	CGTTGAACCC	TAATGCTAAG	GAGTTCAATC	60
CTACAAAGCC	TCTGCTGTCT	GTGGTGAGCT	GGGACAGGAG	AATGTGGACT	TTGGTTTCTG	120
TGGGGAGACT	TGGGCAGTGC	TTATAGATGA	ATAGGGGGAG	GAACACTTCA	CTTCCAGGAC	180
CACTTGCCCTG	GCAGGCAGTG	TGAGGAGATG	TCATAAAAT	GTAAGGATGG	CACCTTTGGG	240
GCTGGCCTTG	GGAAATGGA	CTCAGGTCTC	TAGGTTTGGG	TGATCAGGGA	TCCCAGTGAG	300
TCTGATGAGG	GGTTAACAGG	CTTTCTTTG	GTTCTTGGA	TTTGGCTGAG	GGAGTATTGG	360
AGTGGGGATA	GCTCGAG					377

(2) INFORMATION FOR SEQ ID NO:1362:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 264 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1362:

GAATTCGGCC	TTCATGGCCT	AGTTAAAGGC	AAGTATGTCA	TATTACTGAG	GCTACAAGTT	60
AGTCAGCAGA	TGAGTGCCAG	TCCAGCCTTT	TCTGGTATGT	TATTGTTAGA	AATATTGAGT	120
TCTAATGTTA	CATCTGAGGA	AGTATGTAAT	TTGAGAATTG	TAACTTCTAA	GGGATTCACT	180
GCATCATAGC	TATGCCTGTA	TGGAGTCTAA	CATATGACCA	ATACCAACCC	ATAATCCAGC	240
ATTGAATTCT	AGACCTGCCT	CGAG				264

(2) INFORMATION FOR SEQ ID NO:1363:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 333 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1363:


```

GAATTCGGCC TTCATGGCCT ACCCCTCCCC TAGTTCAGT CCAGGTAAAC AAAAATTGAT      60
TCTATTTTTT CAAAACACCA GCCCCTTCAG ATGGCCTGGT TAATCTTCAT TAACATGTTA      120
TCTTCATTAA CATGTTTATC TTCATTAACA TATTTCTCAG TGATAAGAAG GGCCCAGGGT      180
TCAACATCCC ACTTTGCATC CATGCAGACA AGGGCTGTGG GAAGCTGTAA AACTGAAGAG      240
GCGGTGAATC CAGGAGGGAT TCCCAGATA TCCGTGAGTT GGTGTTTGAC TTTCTGAAC      300
ACGTCTTTCC TTTACTTTAC ACTTCCACTC GAG                                     333

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(2) INFORMATION FOR SEQ ID NO:1364:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 358 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1364:

```

CTCGAGGGGT CATGTTGTG GGGAGAAAGA GACCACATCA CACACAGAGA GAACAAGTCT      60
GTATTAGTTG CTTTGCTAC ATAACAAACC ACTCCAAAT TTAGTGGTTT AGAACAATCA      120
CCTATTTAGT TAATGATTCT CTGGGTTGCA ACTTGGTCTG GGATCAGCTG GGCAGTCTT      180
TTGCTGGTCT CAGCTGGGTT CAGCTGCCTA TCAGCTAGGG AGCTCTGTTT CAGAGGTTGG      240
TTGGCTATGG GTGGCAGGGA TCAAGGATGA CGGAGCCATG TGTCTCTTTT CCTTTTATTA      300
CCCAGCAGGT TAGCCCAGAT CTTTTCCTTT TCTTTCCTAG GCCATGAAGG CCGAATTC      358

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(2) INFORMATION FOR SEQ ID NO:1365:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 292 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1365:

```

GAATTCGGCC TTCATGGCCT ACTTGTTTCTG GGTATGGGGC TAGGATGAGA GAGAATNCCA      60
CAGAGTATGA AGGAAGAGTG ATAGATCCAG ATGAGATACA GCTCAGAGTG CCACGCCCCC      120
AGAAAGAGGA ATCAGGCAAG TACTGTCCCA AGGCAGCTGG AGGGTGAGGG CTGAGTGCCC      180
TGGCTTCCTC ACTTGGGGAG ACCATGGGTC TCTGTAGAAA TTCCAATATA AAGGCAGGGA      240
AATTTGACTG CATGGAGTCT TCAGGTAGAA ATGTTTCTCT TGCCTAAATT CA              292

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(2) INFORMATION FOR SEQ ID NO:1366:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 335 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1366:

```

GAATTGAGCA AGATACCTGG GTCATGATCT CTGAACAGGG TGAGAACTT TATAAAATGA      60
TGTGCAGACA AGGAAATCTG ATCAAAGACA GAAAAGAAA ACTGACTACG TTCCCTAAAT      120
GCTTCTTGG AAGCGAATTT GTGTCATGGC TGTGGAAT TGGAGAGATT CACAGGCCTG      180

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AGGAAGGCGT GCACTTGGGA CAAGCATTAT TAGAAAATGG AATCATTCAC CATGTTACTG 240
 ATAAACATCA ATTCAAACCA GAACAGATGT TATATAGATT TCGCTATGAT GATGGAACAT 300
 TTTATCCAAG AAATGAGATG CAGGACGTTT CCGAG 335

(2) INFORMATION FOR SEQ ID NO:1367:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 383 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1367:

GAATTCGGCC TTCATGGCCT ACTTTCTCTG TTTGCCTTGA CCTTCTTTT TCATGTTAAA 60
 GCCTTTCCTC AAATGTCTGA TTACCTTGG CTGCCGTCA TTTAAGAAAG CGCCACTAGT 120
 CAGCTCATCG GAAGCTGTGA GGGAGAGGGC TGCATTGGT CCTGCCAGGT GGAGGAACAC 180
 TCAGGCATCA GTACTAGGAG GTCTTTCCTC TCAGCCCATG GGATTTCCTT AGAGTCCTAC 240
 ACCGCTGGGA TGAGGCACCT GGGTGTCTGAG TAGAGGAAGG GAGTCATGGG TCAGTCACCC 300
 TGTATGCAGA TTTTCACACA ACCCCCTCTC TCCAGGACAC GCCTCGCCCC CCACCCTAAG 360
 TAATGCAGAA CCCAAATCTC GAG 383

(2) INFORMATION FOR SEQ ID NO:1368:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 347 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1368:

GAATTCCTAT GTGACTGCGA TGGATCTCTT TGTTCTGTT TGTTTCATTT TTGTTTTTGC 60
 AGCCTTGATG GAATATGGAA CCTTGCATTA TTTTACCAGC AACCAAAAAG GAAAGACTGC 120
 TACTAAAGAC AGAAAGCTAA AAAATAAAGC CTCGATGACT CCTGGTCTCC ATCTGGATC 180
 CACTCTGATT CCAATGAATA ATATTCTGT GCCGCAAGAA GATGATTATG GGTATCAGTG 240
 TTTGGAGGGC AAAGATTGTG CCAGCTTCTT CTGTTGCTTT GAAGACTGCA GAACAGGATC 300
 TTGGAGGGAA GGAAGGATAC ACATACGCAT TGCCAACTG ACTCGAG 347

(2) INFORMATION FOR SEQ ID NO:1369:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 243 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1369:

GAATTCGGCC TTCATGGCCT ACCATTTTCT ATGAGCAGAG GAGAGTCACA GGGCATCATG 60
 TGTTAGGAGA AAGAGGCTGG ACTTTATCTT GTCAGTAATG CTGGATGATA CAATAAGGGT 120
 AGGGCCTCAA AAAGTAAATG TAAAAATGAT ATTTGGCACA CATTTGGGTG AATAGAGGCT 180
 GGAGAAAGGG AACCAAGTCA CTATGTATTG GAATAATTCA AGTATAGGCC TGGGATACTC 240

GAG

243

(2) INFORMATION FOR SEQ ID NO:1370:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 256 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1370:

```

GAATTCGGCC TTCATGGCCT AGAGGATTAC TTATTTCTCA GCATTCATCT GGTAACCTAA      60
GCAGCATGAA GCAAGAGTTG CACTTTAAAA AATGACAAGA AAATAGCTAT TCATTTAGTC      120
GACAGAGTAA GGCCCATCTC ATTTCCAGGA TCACTAGTTT CTGCTTATGA CGGGGTGAGC      180
ATCCGCCAGC GCGGTGATTG GGAGGCGCCC CTGTGCTTTT AGGCTGAGGC AGTGCCCAT      240
GCTGCAGTGC CTCGAG                                     256

```

(2) INFORMATION FOR SEQ ID NO:1371:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 332 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1371:

```

GAATTCGGCC TTCATGGCCT AGTGTAGCAA GCTTCCCCTT TGGGAGGGAT GTGAGAACAG      60
AAGACTGAGG ATTGTCTCTA ACTCTAGGAT TCTTTGATGA TTGATTGGAT TGGGGTTTTG      120
TGTGTGTCT AATATTACGG ATGCTAAAAAT GCCTGTACTT CCAAGGTGAT AGCCACCAAT      180
AACCATACAC GTACTAGTCA TCCTAGAAGT GTTTTTATTT CTCTGTGTGG TTATCTTCCC      240
TACCCTAGG GTTGGTGTCT GTTTCCTGCT ACTTCAGGTT GGTTCCCAC TGGGAGGCTT      300
CTGCTGACAG AAAGCCCCAT GCTTGTCTCG AG                                     332

```

(2) INFORMATION FOR SEQ ID NO:1372:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 275 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1372:

```

CTCGAGGGCA ACTGCAGAAG AAAAGATCAG TGAATCTGAT GACATAGCAG AAGAACTAT      60
CTAAGCGAA GAAGACAGGA AAAAAAGCCC CAATGTGAAA TGAACAGATC ACCAGTGAGC      120
TGTGGAACAA CCTATATGGG TTATAGGAGA CCCTAAATGA GAGAACAAGG GACTAAAAGA      180
AGGATTTAAA GAAATAATAG TACAATTTTC TCCAAGTTTC ATGAAAACCG ATTGAATTCT      240
AGACCTGCCT CGAGGCAGGT CTAGAATTCA ATCGC                                     275

```

(2) INFORMATION FOR SEQ ID NO:1373:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 350 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1373:

GAATTCGGCC	TTCATGGCCT	ACAAGACCAT	CCTGGCCAAC	ATGGTGAAAC	CCTGTCTCTA	60
CTAAAAAATA	CAAAAAAATT	AGCCAGGCAT	GGCAGCGTGT	GCCTGTAGTC	CCAGCTACTC	120
AGAAGGCTGA	GGCAGGAGAC	TTGCTTGAAC	CCAGGAGGCA	GAGGCTGCAG	TGAGCCGAGA	180
TCGCGCCATT	GCACTCCAGC	CCGGGCGACT	GAAGAGACTC	CATCTCAAAA	AAAAAAAAAA	240
AAAAAGATGA	GCCTTTTCTG	GGAAAGTGGA	AAAGACAGAG	AAGCCTCCTG	ACAGCCAAGG	300
AGACCAGCAG	CCAGTAGAGC	AGGTGTTGTA	ACAAGGCCGA	GGCCCTCGAG		350

(2) INFORMATION FOR SEQ ID NO:1374:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 273 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1374:

GGAAAAATCA	AGGAGACATA	TTACCACCAA	AAGAACAATA	ATTCCTAGA	AGCTGCAAAT	60
AAATAGAGAC	TATACACTGC	CTTACAGATA	ATTTAAAGTA	ATTGTTTAA	GGAATCTCAG	120
TGAACCTCAA	GAAAATACAG	AGAATCAGTT	CTATGAAATC	AGGGAAACAA	TAAATCAACA	180
AAACGATAAA	TTTAACAGGT	TGAAATCACT	AAAAGAACCA	AACAAATTTT	GGGGCTAAAG	240
AATACAATGA	ATGAAATGAA	AAATACTCTC	GAG			273

(2) INFORMATION FOR SEQ ID NO:1375:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 332 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1375:

TGTGGAATA	AAAAGATGCT	GGGAAAAAAG	TTGTTCCATG	TAGACATGAC	TGGCATCAGA	60
CTGGAGGTGA	AGTTACCATT	TCAGTATATG	CTAAAAAATC	ACTTCCAGAA	CTTAGCCGAG	120
TAGAAGCAAA	TAGCACATTG	TTAAATGTGC	ATATTGTATT	TGAAGGAGAG	AAGGAATTTG	180
ATCAAAATGT	GAAATTATGG	GGTGTGATTG	ATGTAAGCG	AAGTTATGTA	ACTATGACTG	240
CAACAAAGAT	TGAAATCACT	ATGAGAAAAG	CTGAACCGAT	GCAGTGGGCA	AGCCTTGAAC	300
TGCCTGCAGC	TAAAAAGCAG	GAAAAACTCG	AG			332

(2) INFORMATION FOR SEQ ID NO:1376:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 349 base pairs
- (B) TYPE: nucleic acid

- (C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1376:

GAATTCGGCC	TTCATGGCCT	AGGCTTCAGC	AGCTTCCTAC	GATCAGCCGA	AGAAAGCAGA	60
AGCTCTGGAG	GCTGCCATCG	AGAACCTCAA	TGAAGCCAAG	AACTATTTTG	CAAAGGTTGA	120
CTGCAAAGAG	CGCATCAGGG	ACGTCGTTTA	CTTCCAGGCC	AGACTCTACC	ATACCCCTGGG	180
GAAGACCCAG	GAGAGGAACC	GGTGTGCCAT	GCTCTTCCGG	CAGCTGCATC	AGGAGCTGCC	240
CTCTCATGGG	GTACCCCTGA	TAAACCATCT	CTAGAGAGGA	CATCCCTGCT	GGGCTGCTGT	300
GCAGAGTATA	AGATTTTGGA	CTTGTTTCATG	TCCCCTCTCA	CCCCTCGAG		349

(2) INFORMATION FOR SEQ ID NO:1377:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 437 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1377:

GAATTCGGCC	TTCATGGCCT	AAATATGTTG	AAATAGGTTA	GAAAAGGAGG	TGAATATTAT	60
GGGCTGTTGT	CATTGTGAAA	TTCTGCAGTA	ACTTCAGCGT	TGAGGGTTTT	TTTTGTTTTT	120
GTTTTTGT	TTAGTTTTGC	TTACTGAAAT	CAAAGAGTTG	TTACTCTGTC	TGTGGGTGTT	180
TAAGAGACAG	GATCTCACTC	TGCTGCCAG	GCTGGAGTGC	AGTGCAGCCA	CGAATGCCTG	240
GGCTCCAGGC	CCTCCTGAGT	AGCTAGGACT	TACAGGCATG	CACCACCACA	CCGATTTTTT	300
TATTTTTTA	TTTTTATTTT	TTTAGTTTTT	TAGAGGTGGT	GGGGGGGTCT	CACTGTGTCT	360
GCTTCTGGGC	TCAAATGATC	CTCCTGCCTC	AACCTCCCAA	AGTTCTAGAA	TTACAGAGGT	420
GAGTCACCAC	ACTCGAG					437

(2) INFORMATION FOR SEQ ID NO:1378:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 267 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1378:

GAATTAAAGC	ACTGCCTCTA	TTCAGGCTGC	CGAGGCACTG	CTTTAATTTT	TGAAAGATT	60
CACCGCGTCT	TCTTGGAATT	CAAGAAAAAT	CCCGTTAAGA	ATTGAGGGGC	TCTCTTCTTC	120
CCCTCCTGAC	GTGAGTGTA	CTCACTTCCT	GGTATGTCTC	CTTTCCTTTT	GGCCTACATC	180
CTTGTCTGT	TAGGTGCTTC	CACATCCTTA	TGTCTTAAAT	GGCCAAAATA	CGTCACCCCC	240
ACTGCCAAAA	CAACAGATC	ACTCGAG				267

(2) INFORMATION FOR SEQ ID NO:1379:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 305 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1379:

GAATTCGGCC	TTCATGGCCT	AGAGGTGACT	AGAAGCGAAG	ATGGAGGTGG	CGCAGCACCT	60
CATCCCAACT	CATGCCACCT	GGGGAAGCAG	CTTCAGGCCT	TTCTGTTGTA	ACCTCAGCAG	120
AAACTTTGGG	GTTTATCCTT	TATCTTGAC	ATGCCCCAGG	GAGGTAAAGG	GACTTGCCTA	180
GGTTCATGTA	CAAACTTTCT	GCTTCCAGAG	CAGGACTTTA	TTGGGACACC	ATAAGGTTGA	240
GGCTGGGAGG	TACCCAAGAA	TTCCTGGGGA	TGGTATGTCA	TTGACTGTGG	GTAGAGGGGC	300
TCGAG						305

(2) INFORMATION FOR SEQ ID NO:1380:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 206 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1380:

GAATTCGGCC	TTCATGGCCT	AGGCTTGTT	GCCTCTGAAA	GGAGGGAAAG	TCTCTTGTA	60
AATTATCTCT	TTTGTGCTGT	TTGCTGTTTC	TCTGCTACCG	TCTTTGCAGT	TCTCCTCTCA	120
CTGGTTGCAG	GCTTTCATAG	TAAGGTTTGG	CGAGAAATGT	TCCAACATC	ACATTTTGA	180
TTCTAGGCTG	TCACCCAGG	CTCGAG				206

(2) INFORMATION FOR SEQ ID NO:1381:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 496 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1381:

GAATTCGGCC	TTCATGGCCT	ACTCCTCGAT	GCTGATTCAT	ATCCTACTGC	CCATGGTTTT	60
CTGCGTCTTG	CTCATCATGG	TCATGTGCTA	CTTGAAAAGT	CAGTGGATCA	AGGAGACCTG	120
TTATCCTGAC	ATCCCTGACC	CTTACAAGAG	CAGCATCCTG	TCATTAATAA	AATTCAAGGA	180
GAACCCCTCAC	CTAATAATAA	TGAATGTCAG	TGACTGTATC	CCAGATGCTA	TTGAAGTTGT	240
AAGCAAGCCA	GAAGGGACAA	AGATACAGTT	CCTAGGCACT	AGGAAGTCAC	TCACAGAAAC	300
CGAGTTGACT	AAGCCTAACT	ACCTTTATCT	CCTTCCAACA	GAAAAGAATC	ACTCTGGCCC	360
TGGCCCCCTGC	ATCTGTTTTG	AGAACTTGAC	CTATAACCAG	GCAGCTTCTG	ACTCTGGCTC	420
TTGTGGCCAT	GTTCCAGTAT	CCCCAAAAGC	CCCAAGTATG	CTGGGACTAA	TGACCTCACC	480
TGAAAATGTA	CTCGAG					496

(2) INFORMATION FOR SEQ ID NO:1382:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 280 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1382:

```
GAACTAGAC AAGAAATCTC AAGCCATGGA GGAGCTAAAA GCAGAGCGAG AAAAACGAAA    60
GAACAGAACA GCTGAGCTCC TTGCCAAAAA ACAGCCATTA AAAACCAGTG AGGTCTACTC    120
TGATGATGAA GAGGAGGAAG AGGATGACAA ATCCAGTGAA AAGTCAGACC GCTCATCAGG    180
AACATCATCG TCTGATGAAG AAGAGGAGAA AGAAGAGATC CCTCCCAAAT CCCAACCAGT    240
TTCCTTACCT GAAGAATTGA ATCGGGTTCG ATCTCTCGAG    280
```

(2) INFORMATION FOR SEQ ID NO:1383:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 262 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1383:

```
GAATTCTAGA CTGCCTCAG TCTCCCGTC ATGCTCCCTC TGCCCGCCC TCAAAAAAA    60
AAAAAACA ACAGCACCTG TCAGGCTTC CTTAGGTACA TCTCTTTGT    120
ATCCATTGGG AGGCTCTGAG ACTGGCCCA CTGGTCCTA AGAATCCCA GGTCTTTGGG    180
AGCGTCCAGC ATGTTAATTA GCGTATCATT ACATACTGCT ATCCCTTCC ATTTCTTTT    240
GTTCCATCAC TCTCCTCTCG AG    262
```

(2) INFORMATION FOR SEQ ID NO:1384:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 458 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1384:

```
GAATTGGGCC TTCATGGCCT ACAGATTATC TTACACTGAA CTGATCAAGT ACTTTGAAAA    60
TGACTTCGAA ATTTATCTTG GTGTCCTTCA TACTTGCTGC ACTGAGTCTT TCAACCACCT    120
TTTCTCTCCA ACCAGACCAG CAAAAGGTTT TACTAGTTTC TTTTGATGGA TTCGGTTGGG    180
ATTACTTATA TAAAGTTCCA ACGCCCCATT TTCATTATAT TATGAAATAT GGTGTTACAG    240
TGAAGCAAGT TACTAATGTT TTTATTACAA AAACCTACCC TAACCATTAT ACTTTGGTAA    300
CTGGCCTCTT TGCAGAGAAT CATGGGATTG TTGCAAATGA TATGTTTGAT CCTATTGCGA    360
ACAAATCTTT CTCCTTGGAT CACATGAATA TTTATGATTC CAAGTTTGG GAAGAAGCGA    420
CACCAATATG GATCACAAAC CAGATGGCAG GACTCGAG    458
```

(2) INFORMATION FOR SEQ ID NO:1385:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 284 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1385:

```

GAATTCGGCC TTCATGGCCT AAGTTTTCAT AATCTTTCTA AGCAAATAAA TTGAGCATGC      60
AGGTTTTTTT TGCTTTCAGT AAGTATGTTA AAGATAITTA TTGTACTTTG GTTTTCTTTT      120
CTTTTTTTTT TTTTTTTTTT TTTGAGACTG AGTCTCTGTC ACCCAGGGTG GAGGGCAGTG      180
GCCCAACCTC AGCTCACTGC AACCTCCGCC TCCCATGTTT CAGTGATTCT CCTGCCTCAG      240
TCTCCCGAGT AGCTGGGATT ACAGGTGTGA GCCACCACGC CCAG                          284

```

(2) INFORMATION FOR SEQ ID NO:1386:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 275 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1386:

```

GAATTCGGCC TTCATGGCCT AGTAGTTGTT CCATGCTGTT GTTTTTTGTT TTATCTTTCA      60
TTGCCTTTCC CTCTGCAGTC AACATTATGA CCTGGGGACT CCAGCATCCT TCAAGCAAGC      120
CATTTCGAA GAAGGTGAAA AGAAGCCAGG ATGATTGGCA CCTCCTCCTC CTCCTCCTCT      180
TCTTCCTCTT CCCTTGCCCA GCCCCCTCCT GTGCGTGTGT TTCAGACAAC ACAGGAGCCA      240
GCACAGGAGT GGAAAATCCT GTAGCGCAAC TCGAG                          275

```

(2) INFORMATION FOR SEQ ID NO:1387:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 296 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1387:

```

GAATTCGGCT TCATGGCCTA ATTGAATTCT AGACCTGCCT CGAGCCTCCA AAAAGAGTAA      60
ATAAATAAAA ATAAAATTGC CTTTAAACAG AAACACACAT AAAACAAAGT TATATATTGA      120
ACCTAACCCT GTATTTCTC TGGGAACAGT GGTTCAGTAT TCAATAATTC AGGATTTGCA      180
GCAGCATAGA ACTTAATGTA ATGAGAGTCA AGTATATATT TCCAGAACC CTAAACTAC      240
TGCATATGTG AACATATCTT ATTCAATGAT TATGTGGGCA TATAGTGAAA CTCGAG      296

```

(2) INFORMATION FOR SEQ ID NO:1388:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 548 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1388:

```

GAATTCGGCC TTCATGGCCT ACAACTTGTT CTAGCTTGTG ATCCCTCAAA GTTGGGTCAT      60
ACGTTAGTGC TAGATACTAG AAATTTTCAC TTTTCCACTG ATCAGAGAGA CAGACATTAA      120

```



```

AAACAAAAAT AGAAGAAAGG AAAGCTTTCA CCCTGCAGCT TCTTAGCAGG GAACAATTGT 180
CTTGCCAAAA CTTTTTTCCC TTTTCTCTCC CATTITCTTT TACCCAATCC CTTCTTACTC 240
CTTGCCAGTG TGACCATGCG CATTGGTTTA AAAAGATATT CTTTCCTAAT CAGGGCAAGA 300
CAGGCAAGAA TTTTAAAAAA GGAAGGGAGG GAGGGAAGAA GGAAGGAAA ATAAATCCTT 360
TATTTTTTTA AACCTATTTG AAACCTCTTA AGAAAAATTCC ACAATAATCA GGATTTCGTG 420
AAATATTGTC AATATATATG AACATATTTG AAAAATAACA GTTACAGTAT ATTTACATTT 480
TTGGAAACTT TTCTTCAGGG CCAAGTAACA TGTGTATCT TCCTTTTGC TTGTGGGGGC 540
TACTCGAG 548

```

(2) INFORMATION FOR SEQ ID NO:1389:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 305 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1389:

```

GAATTCGGCC TTCATGGCCT AATATGTTCT TCACAGGGAT GAGTCCTAAA TATTATCTT 60
CAGCCATGAC ATTTTCTTG AATTCCAGAT TTGCATATCC AACTGCCAAC TTGATATCTC 120
ACTTGGAGA ACATCATCAC AAACCTAACT CATCTGAAGT TGGCTTCACA TTCTCCTCCC 180
CTATCACTAA CTGCCTTTC CACAGTATTC CCCATTTCGG TACATGGTAC CACCATTAT 240
CCAGTTGTTT AGACCTAAAC CTTCTAATT ATTCTTTTC CTATCGTTAT CCCACATACC 300
TCGAG 305

```

(2) INFORMATION FOR SEQ ID NO:1390:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 292 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1390:

```

GAATTCGGCC TTCATGGCCT ACTGGGTTAT TATTCTATTC CGTTGATCTA GCTAGTTTTA 60
AATTTTCTAC CTTTCTACC TGTTTTGTT TAATAGTTTA CTGTTTTTAT CTGAACAAAA 120
TTCTCTTTC AATAGTTGAT CCGCTGAAT GTCTTCCCGT AGCATTGGGC TTCCTCAGGT 180
AACCTGGCAT TTTGGTTTGA ATAGAAGGT TTTTATGTC CTTTTTTCT TTTTATTTT 240
TGAGATATT ATCTTTCTT TATTTATTTA TTCGAGTCGG AGTCTACTCG AG 292

```

(2) INFORMATION FOR SEQ ID NO:1391:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 217 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1391:

```

GAATTCGGCC TTCATGGCCT AGGCGATCGT ATTAATTCTC AAGAAATTC CAACAAATAC 60

```

CACCTGGTTA ATGTTTTCAT TAAGGGCACA CATTCTTGCT ATTGAGCCAA TGTGTGTTGGT	120
GATGGTGATC AAAGTCGCTC TGGCCAGGTC CTCTTTACTG ACAGCCTCTC GCTTCTCCTT	180
GCTCATCATG TTTCCAAAGC TTGAAGCCAC ACTCGAG	217

(2) INFORMATION FOR SEQ ID NO:1392:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 438 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1392:

CGGGAGGCTG AGGCAGGAGA ATCACTTGAA CCCGGGGGGT GGAGATTGCA GTGAGCCGAG	60
ATCAAGACAT TGCATTCCAG CCTGGGCAAG AAGAGGGAAG TTCTGTCTCT AAGAAAAAAA	120
AAAAAAAAAA AAAGCTACAC TTTGATCTTT GATTCACTAG ATATCAGTAA GTATTTGCTG	180
CATTTTCATGA GAGCCAACCA TGAGTAAGAC AGAAGTACTT CCTGTCCTCC TGGGCTTTCC	240
TGAGTAGCAG GAGAGATGGA CTAGGAAGAT GAGTGACTGC AGTAGCCTGT GCTGTTCTGC	300
GCTGATGGA GAGGCCACTG AGAGTCCGGA CAGGCAGGCT GATATTGTGA GAAGGCTTCT	360
GGAAAGAAGG AACATTTAAG CTGAGAGTGA GAGTTGCGTA AGAATTTCCC AGGGAGGGGA	420
AAGAGGGAAA CACTCGAG	438

(2) INFORMATION FOR SEQ ID NO:1393:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 272 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1393:

GAATTCGGCC TTCATGGCCT AAAACTTCCT AGGAGAAGGC AAGAGAAAGC CACCAGACCA	60
GAGCCGAGGA CTAAACTTTA AGGTCGAAGA CGGCAGAGGG GCAGGTTCTC CCCTGCACAC	120
CCCAAGGCCT CTCCTGCACC CGCAGGCCT TCCTTGAGCG CCCAGGCCCC CGAAATGCCT	180
GCCCTCCTTC TGACAAAAGG AGGGGGTAGG ATGTGAAGGG GTAGTGCAAC CAACAATGTT	240
TTTGTAACA CAACAACAAG GAAATACTCG AG	272

(2) INFORMATION FOR SEQ ID NO:1394:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 311 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1394:

GTGAAATTGT CAAATAAAAA TATGAAACT CAGCTGACAA GAGTAAATGT CCTTAAAGAC	60
AAAACAATTG AAGAGCTCAG GCAATCTTTA GCAATGTTG AAAGGATGAA AGAGAAGGCA	120
AATGTTGAAA CGATGAAAGA GAAGGCAGTT GTGAAAACAG AAAACTTGAA AACTACATTA	180
GACTCTGCAG AGCAAAAGGC AAGATCAGAC AAAGAGAAGA CCCAGCAGAT GTTAGATGCT	240

GTCAC TTCTG AGCCCCAAC AGCAAAGAGC GCACCTGAAG AAGTATCAGG ACAAGAACAA 300
GAAGTACTCG A 311

(2) INFORMATION FOR SEQ ID NO:1395:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 367 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1395:

GAATTCGGCC TTCATGGCCT ACTGTGTGCT TAGTTTTAAA GACAAC TTG AAGTAAACAA 60
TGAAATAAAA GATGTCACTA AAACCTCTGA GGCTCCTGAG CACATTTTGC TGATACAGTC 120
TGTGGGGCTT GAGGAGACCG CATGTATTGT TCTTTCTTTT GTTTTCTTC TGAGTTCTCA 180
ACTGCGGAGA GCACCTGAAC CCCCTTTCCT TTTTGACCGC AGGCTGCACT TTGGGCCCCA 240
GCCAGCCCTT TTTCTTTTTC TTTTCTTTT GTGTTCTTC CCTGGAGCGA CTCTGGGGAG 300
TCCTGGATAT CCCGCCTGCC CCTTCCCCTC AGCCCCATGC TTGTTCCAAC AGTCTCCACA 360
GCTCGAG 367

(2) INFORMATION FOR SEQ ID NO:1396:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 333 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1396:

GAATTCGGCC TTCATGGCCT ACTTGGAAC GAAAGAGGGC CCAACCTACA ACTAAGAAGG 60
GACAAACCTT GAACTAAGTA AGACCTTACA CACCCAGAAA GAACACTGGG CCCTCCTTCT 120
TCAGGGACAA TGCAGTAGCC ACTTGGCTTG TGGAATTTAC TGAAGGCTAT TTCCTGTAAC 180
TTGCTAGTTA ACTTAGTTTT GTATTTCAGG CAGAGGTGCG CTCTGTAATG TTGGGCCTTT 240
GACTTCACAG TACTGGAGAG CTGTTACAC AGATGTTTAG ACCTTTCTCT CTCTCTCTCT 300
TTTCTTCTTT CTCAACAACT CTTATCTCTC GAG 333

(2) INFORMATION FOR SEQ ID NO:1397:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 356 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1397:

GAATTCGGCC TTCATGGCCT ATAGGCCATG AAGGCGAGAT ACAGCAGCTG CTGCAGAACG 60
TCAAGTCTGA GTTGGAGATG GCCCAGGAAG ACCTGTCCAT GACCCAGAAG GATAAATTTA 120
TGCTCCAGGC AAAAGTGTG GAGCTGAAGA ACAACATGAA GACCCTGCTC CAGCAGAACC 180
AGCAGCTCAA GCTGGACCTA CGCCGCGGCG CGGCCAAGAC GAGAAAGGAG CCGAAAGGCG 240
AGGCCAGCTC TTCCAACCTT GCCACGCCCA TCAAGATCCC GGACTGCCCA GTTCCCGCCT 300

CGCTGCTGGA GGAGCTGCTG AGACCACCGC CCGCCGTGAG CAAGAGCCCC CTCGAG 356

(2) INFORMATION FOR SEQ ID NO:1398:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 447 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1398:

GAATTCGGCC	TTCATGGCCT	AATTCTATGA	GGTATTATTA	TCACTATTTT	ACAGATGAGT	60
AAACTAAGGC	TCACAGAGAT	TAAGTGGCAG	AACTGAAATT	CTCCATATCT	TTTGTATTCC	120
AGATTATTC	TCTTAATCAT	GATATGATTT	TGTCTCATAT	AATCCAATAC	AATAAATAAG	180
GAGGTCAGGC	AGTAGGAGGT	GAAGTTGGAG	AGACTGGGAG	ACCTATCAGG	AGGGGTCATT	240
TATGCCTGGC	TAGGAGTTTG	GACTTTATGC	TGAGGCTATG	GGAGCACTAT	TAAAGTGATT	300
CTAGCACTGC	AAAGTTATGA	TTAGGTTTAT	CAGCCAAAGG	AAAAAAAAG	ATCTTGGTGG	360
TCACAGTGCA	GGTAGATACG	ACATAATCGA	GAAATGTGAA	GAATGCAGAA	TCAAGAGTTT	420
GGTGCTGGAC	AGAGAGAGGA	ACTCGAG				447

(2) INFORMATION FOR SEQ ID NO:1399:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 428 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1399:

GAATTCGGCC	TTCATGGCCT	AATTGAATTC	TAGACTCTTT	TAAATTTTCT	GCATTGCGCT	60
GAAAAGCACC	CCTGTAAGAA	TAGATTTCTC	ATGGCTCTAA	AAATTATTCC	CAAGAATACC	120
TTACTTGGTT	CAAAAGCAGA	CTGTTTCTCT	TCATTTTCATC	TCAAATCAGA	CTTCTGGGCA	180
AGATGTTCTT	TAGAGTAAGC	AAACCTACAA	CCTAAAAATC	TCTTCAAGAG	GCATCTCTGG	240
TCTTGTGACA	AGACCTCTTC	AAAAACCCAC	AGTAAAACTC	CCCTCCCTCC	AGTTGGCCAC	300
CAGTCTGCCA	CCAAACATGA	ACAAATTCTG	CTGCTAATCG	GTTTCCCTTG	TGATCTGGTT	360
CCTGAGGTCT	TCGGATCTGT	GCAATGAATT	ATTTATTGTT	TTATTAAACC	GACAGTGGTG	420
TGCTCGAG						428

(2) INFORMATION FOR SEQ ID NO:1400:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 276 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1400:

GAATTCGGCC	TTCATGGCCT	ACTAGACCTG	CCTCAGGGTG	TTCTGTGGTT	TCAGGTGGAA	60
GGTGGAGGGC	CTCGGAGACC	AACTGTGAGT	TAGGCGGGGT	TTAGAATCTG	ATGGGAAGAG	120
GGCAGAGACA	ACAGGTTCTG	AAGAGTCAGG	GCTCCTGGGA	CCTGGGAAGT	AAAGAGTAAA	180

CCTGGGGCAG TGGGTCAGGC CAGTAGTTAC ACTCTTAGGT CACTGTAGTC TGTGTAACCT 240
TCACTGCATC CTTGCCCAT TCAGCCCGGC CTCGAG 276

(2) INFORMATION FOR SEQ ID NO:1401:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 316 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1401:

GAATTCGGCC TTCATGGCCT AGCCACCGTG CCTGACCTAC TTATTCITTT TCCTGTTTCAG 60
CATCTAGTGT ATGATACGAT TTGCTTATTT GTTTATGTTT CATCATCTGT TCCCCACCCT 120
CAGCCCTGGC CCCCTTGCTG GAACGCAAGC TCCAGGCAAA GCTATTTTCAC CGTTGCTGTT 180
TTCCAAGGGC CTCGAACAGT GCCCGGCACA TAGCAAATCC TCAGTGAACA TTAGAGGAAT 240
AAGTGATTCA AGAATAGAGC TGTTAGAAGG TGTTCTGGAG GAAGACGCAT CCGGCTTCAT 300
CCCTGGCACC ATCGAG 316

(2) INFORMATION FOR SEQ ID NO:1402:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 342 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1402:

GAATTCGGCC TTCATGGCCT AAATTCTCCA GCAAATGAG GATGAAAACC AGGAAAGAAG 60
AAGAAATGGG ATCCATAAAA CAGTGGACCT TACTTAGGAT GTCTCATTTCT AGAGTGACAG 120
CCAAAAGGGT ATCTCACCTT AGAGTGACAG CTATCCAGCA GACTAATTTT AGATGAGAGC 180
ATACTGTCTC GGGCTTTCTG GGAAGAATGT GCATTCAGTG CCATAGATAG TATCACTGAA 240
GAGCTGGGAT GCTTGAGAAG ATTATTTAGT CAAGAAAAA GAAAGACAAA TCAACAATAT 300
GTCAAAAAAT TCAGGTCCAA TTATAGAGCA AAAGGCTCG AG 342

(2) INFORMATION FOR SEQ ID NO:1403:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 333 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1403:

GAATTCGGCC TTCATGGCCT AAGGCTAAAA AGAAGGAAAA AGAAAAGGAA AAAAAGGAGG 60
AGGAGAAAAAT GGAAGTGGAT GAGGCAGAGA AAAAGGAGGA AAAAGAGAAG AAAAAAGAAC 120
CTGAGCCAAA CTTCCAGTTA TTGGATAACC CAGCCCGAGT TATGCCTGCC CAGCTTAAGG 180
TCCTAACCAT GCCGGAGACC TGTAAGTACC AGCCTTTCAA ACCACTCTCT ATTGGAGGCA 240
TCATCATTCT GAAGGATACC AGTGAAGACA TTGAGGAGCT GGTGGAACCT GTGGCAGCAC 300
ATGGCCCAAA AATCGAGGGG GAGGTAATC GAG 333

(2) INFORMATION FOR SEQ ID NO:1404:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 422 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1404:

```

GGGCCCTGGG CCCAGCCCC CAGCCCATCC GTGGCCCAGG CACTGGGGGG CTGAGGTCCT    60
CTGAGAAGGG ACACAGGGCC GGGGGGCTCT CTCAGCCCAT CAGCAGGAGA GGACTGACTC    120
CAGAAAAATC AGCGTTTGTA CCCACTCAGG CTGCCAAGAC CTGTGTCCGT CCTTCCAAGC    180
TCAACCTTCA GAGTTCATGA GGCCCTTGC CCAGATGTC CACAGAGTT ATGAGGCCCC    240
TGCCCCGAA TGTCCACATT TGAACTCC CAACACGAG CCCCATTTCA AGTATAACCA    300
GGAGGAAAA TGGTGCTTGA AATAAGCATG CCACAAAGGA AAACCTGCTT TCTCGAAATG    360
GGCCCTGGCC GCCCAGGCC TGACCTCCCC GGCCAGGATG GAACGTTCCA GAAACCCTCG    420
AG                                                                    422

```

(2) INFORMATION FOR SEQ ID NO:1405:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 314 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1405:

```

GAATTCGGCC TTCATGGCCT ACTGGGTCC AACTGGATA TCTTGGTGA GAACATGGGG    60
AGGCTCAGCT TTGGGTCTAA CAGCAGTGAC TTCAAGGGCC TGTGAAGCC ACCAATTCTG    120
GGCAAACAA TCCTTACCCA GTGGATGATG TTCCCTCTGA AAATGATAA CCTGTGAAG    180
TGGTGGTTTC CCCTCCAGTT GCCAAAATGG CCATATCCTC AAGCTCCTC TGGCCCCACA    240
TTCTACTCCA AAACATTCC AATTTTAGGC TCAGTTGGGG ACACATTCT ATATCTACCT    300
GATGGACACT CGAG                                                                    314

```

(2) INFORMATION FOR SEQ ID NO:1406:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 299 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1406:

```

GAATTCGGCC TTCATGGCCT AATTGAATTC TAGACCTGCC TCGACTGCCC CAAACCTGAC    60
CCATCCTCAG ACCCCACCC CCGTCACCGC TCCTCCCAAT GATTCTCTCC TCTGTCACTC    120
CTGCTCTACT TTCAAATCC TCGCTGCTC CAAACCTGAC CCATCCTCAG ACCCCACCC    180
CCGTCACCGC TCCTCCCAAT GATTCTCTCT TCTTTGATCC TGCCAACCTT TCCCCAACAG    240
CACCGTAATC CTCCCCAAA TCATCACAAT CCTCCACCAT ACAATCCGCG GTTCTCGAG    299

```

(2) INFORMATION FOR SEQ ID NO:1407:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 199 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1407:

GAATTCTAGA CCTGCCTCTC GCTGGAAATC AGCGTTGTAA GATGGACGCC CTGCTCAGCA	60
GAGCTCATCT TTCTAGAAAG GCACCTGGCC TTGGAAGGCG AGTGAGGAAC TGTCTAAGG	120
ACTTTTTCTT CCCATGTTGC TTTTCAGGAA AGCTTTCAGG ATGTGGAAAT GATGGTTCAG	180
CTATTGGATG AGGCTCGAG	199

(2) INFORMATION FOR SEQ ID NO:1408:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 220 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1408:

GAATTCGGCC TTCATGGCCT AGTGATCCAG AAGAATTACC ATTAACTTTA TTTCAGAATT	60
TAGACTTCCA AATCAGGTTA ATCCTCCAAT TAAAAGAAAG ATTCAGAGTG AATTTTTTAA	120
AAGGCAAGGC AGTTATATGT TGCTTACAAG AACTAAACA TAAAGGCACA GATAAGTTGG	180
AAGTAAGAGG GAAAAAGACA TCGAATACT AAGTATAGAG	220

(2) INFORMATION FOR SEQ ID NO:1409:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 235 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1409:

GAATTCGGCC TTCATGGCCT AGATAAGCCC TTCAGAAACA CATGCACTGT TAATTCTGTT	60
TTAAATATAA TAAAACCAT TTCACCTTGA CATTACCTAT TAAGTTTTAC TGAAAGTCAA	120
AAGGCCTACT TACTGTGACT TCCAAAAAAG TATTTTGATA ATATTTTGAA AGAAATAAAT	180
AATTTCCCTT TGCATGAAAT TAAAAGCCAT GATAATAGGG AAAACATTAC TCGAG	235

(2) INFORMATION FOR SEQ ID NO:1410:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 577 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1410:

GAATTCGGCC	TTCATGGCCT	ACCCACGTAA	CGGCTTGGCT	GGGCACCCCC	GCTTGGCTTG	60
GTGGTCTCGG	TTTGGATTGG	CTTTACCCTG	GCATTCCCTT	GCTGGGCTTG	ACCTTTTCTT	120
GCTGGGCTTG	GCATTCCCCT	GGCTGGGCTG	GGTGTTTCCC	CGGTGGGGCG	TGCATTTCCT	180
CTGGGTGGTG	GAGGGGGCGT	GGGCTCTCCC	CGGTGGGTGG	GGGGACGTGG	GATCTCCCCA	240
GTTGGTGGTG	GGGGAGGGGT	CGTGGGCTCT	CCCAGGGTGG	GGTTTTGGCT	GGGATTGACC	300
TTTCTCCCCT	AACAGATTGG	AAACTCGTAA	TTTCCCCTT	TTTGGTGAAA	CTCGTTGACA	360
GACACCATCT	GCTCGCTACT	ACCAGGCTGT	TGAAAGCAGA	TGGTGGCTGA	GGTTTCTCCA	420
AAGCTGGCTG	CCTCCCCTAT	GAAGAAGCCC	TTTGGCTTCA	GGGGCAAGAT	GGGCAAGTGG	480
TGCTGCTGCT	GCTTCCCCTG	CTGCAGGGGA	AGCGGCAAGA	ACAACATGGG	TGCTTGAGAG	540
GACCACGACG	ACAGCGCCTT	CACGGAGCCC	ACTCGAG			577

(2) INFORMATION FOR SEQ ID NO:1411:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 275 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1411:

GAATTCGGCC	TTCATGGCCT	AGGGATGCCT	CTCAGTGACC	CTTATATGTC	AGGTATGAGG	60
CGGATGGGGC	ATCTCTCTAG	TCCTTTCTAG	GGTTTTTACT	CTTCTAGTCC	CTTCAAGGGC	120
TGAGTGCTCT	GACTTTATGT	CTTCCCACGT	AGGCGTTGAC	CCTGCACTAT	CAGATCTCTG	180
GTTGGCCCCG	CGCCTTCGGG	AAAACCGGAG	TTTGGCCATG	AGTCGCTG	ATGAGGTCAT	240
CTCCAAATAT	GCAATGTTGC	AAGACAACCC	TCGAG			275

(2) INFORMATION FOR SEQ ID NO:1412:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 532 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1412:

GAATTCGGCC	TTCATGGCCT	AGTTTTATTT	TGCACTTGA	AATATGTCAG	AAATCACTTG	60
AAGGCAAATA	AGATCTGGCC	CTCTGCAGAG	TTAAGTGGCT	AACATGCCCT	AGATCTCCAG	120
GCTTAGAGGC	TGCCCTTTG	GTACCCATGA	TTCTCCAGGC	CTTTCCAGGG	CAACATTGTC	180
CAGCATCTCT	CTCTCTCTC	CCGCCGTCTT	CCTTTGGAAG	TTTGACTCTC	ATGTGTGGTG	240
CCCGATCCCT	AGGCCACCTG	TGCCGGCCAG	CCCCTGAACA	GATAAATCCT	ACTAAAGGTT	300
AATCCCAAGC	ACAAGCTTTG	GGCTGGTCCT	TCTGGGTTGA	TTGGCTTTCT	CTCTCTCTCT	360
CCTTTTGTGA	GATGGAGTCT	CCTTCTGTCT	CCCAGGCTGG	AGTGCACTGG	CACAATCTCG	420
ACAATCTTGG	CTCACTGCAA	CCTCTGCCTC	CCGGGTTCAA	GCAATTCTCC	TGCCTCAGCC	480
TCCTGAGTAG	CTGGGATTAC	AGGTGCCCCG	CAGTCTTCT	GGCATACTCG	AG	532

(2) INFORMATION FOR SEQ ID NO:1413:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 321 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1413:

```
GAATTCGGCC TTCATGGCCT AGGCATCCAG GACAAAAGTT TGGAAAACAA AATAATGGAA    60
CTAAATAGTA CTAACCAAAG TATAGGGTGC TTTATGATT ACAGAACTCT CTTACAGGCA    120
GTATGTTGTT CAGGCGCCAC TAGAACCAC GTAATGGCAG AGGCTTCCTG TTCCATGTTT    180
AAAAACCTTT CCAAGGCTTT TCATTATTTT CTTATCTGTG GTACCCCTAG CTTCTGTGTC    240
TCTAGACACA CTGGCCTACC TTCAACTTCC TTGACCAGTG TAGCTTACAG TGTAAGCTTA    300
CCCCCGCCC CCACCTCGA G                                     321
```

(2) INFORMATION FOR SEQ ID NO:1414:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 457 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1414:

```
GAATTCGGCC TTCATGGCCT ACATGAACGG AAGAGTGGAT TATTGGTCA CTGAGGAAGA    60
GATCAATCTT ACCAGAGGGC CCTCAGGGCT GGGCTTCAAC ATCGTCGGTG GGACAGATCA    120
GCAGTATGTC TCCAACGACA GTGGCATCTA CGTCAGCCGC ATCAAAGAAA ATGGGGCTGC    180
GGCCCTGGAT GGGCGGCTCC AGGAGGGTGA TAAGATCCTT TCGGTAAATG GCCAAGACCT    240
AAAGAACCTG CTGCACCAGG ATGCTGTAGA CCTCTTCGT AATGCAGGCT ATGCTGTGTC    300
TCTGAGAGTG CAGCACAGGT TACAGGTGCA GAATGGACCT ATAGGACATC GAGGTGAAGG    360
GGACCCAAGT GGTATTCCA TATTATGGT GCTGGTGCCA GTGTTTGCC TCACCATGGT    420
AGCAGCCTGG GCTTTCATGA GACACGGCA ACTCGAG                                     457
```

(2) INFORMATION FOR SEQ ID NO:1415:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 373 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1415:

```
GAATTCGGCC TTCATGGCCT AAAAATATCT AGTCACIGTT CTGTTTACC CATTCTTTTA    60
AACTTTGTTT TTCAGTTTCA GTCAGGCTTC CAAGAAACT GATAACATTT TGATTGGTTG    120
GTTTCTCTTA TATCTTTTTC ATTTACAGT ACATTGTGAT TTAATGATTT ATCTCTTAAA    180
TCTTTTTCAG TTCATAGGTT CCTCCTGTCT CTTCTTTT CCTTGCACTT CATTGTGTGC    240
AGAACCTTTG TCCTGTGGTT TCGCACAGTC TGGAGGAATT GGGGAAAGTG GCTGTCTAAA    300
CTGGTTCCCT CCTCCATT ACTGTGCAA TCAAGATGTT AGGGGGCCTA CAAGCAATAG    360
AAGCATCCTC GAG                                     373
```

(2) INFORMATION FOR SEQ ID NO:1416:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 239 base pairs
- (B) TYPE: nucleic acid

(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1416:

GAATTGGCCT	TCATGGCCTA	GTCATTGCT	TTTATATCAG	ATATCTAATT	AATCAAACCT	60
TCTGGTTAAG	TGCCTCCAAT	TATTAACAAT	CCTGCTCAGA	GTTAAGATTA	GCATCCAAGG	120
ATTTTCCTCC	ATATTTCTTT	TCAGAGGCAA	TGGAATTTAC	TAGTTTTTTA	GCTCTTCAAC	180
TTTGGCTGAT	GGTTTTAGTG	GTGGTTATGC	TATCTTCAGT	AGTTTGGGGA	TCGCTCGAG	239

(2) INFORMATION FOR SEQ ID NO:1417:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 308 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1417:

GAATTCGGCC	TTCATGGCCT	AAGAAAGGTT	AAGTTACTTG	CCTGAGGTAA	CTTAGCATTG	60
ATAGAATTAG	GATTTGAACC	TGGGTAGTAT	GACTCTTAGG	TCCCCATGAG	CTGGCACACA	120
GGTTGCCAAT	CCATCAGTTA	ACCTTCCCAT	CACTGGGTCA	GAGAGCCAAG	GAGCAGAAGG	180
GGGATAGAAC	TTCCCCAGTA	CCAAACTAAG	GGGCTGAGCT	GGGATCGCAA	CCACAGGTTT	240
TGTTCCAAAG	CTGGGGCTCT	TTCGACAAGG	CCATGCCCGC	CTTGTCTCTT	ATGCATGCTC	300
CACTCGAG						308

(2) INFORMATION FOR SEQ ID NO:1418:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 174 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1418:

GAATTCGGCC	TTCATGGCCT	AAACAAACAA	AAAAAAATGT	TTTATATGCA	AAAGTTTTTT	60
GTATCATGCT	TGTATAAATC	CAGCTTTTTT	TGTATCATGC	TGTATTTTTT	TTTTTCTAGC	120
TGTTATTGCT	TTTCTGATAA	TAGTACTGAA	TTTGGTGTTA	TGGCTGGTCT	CGAG	174

(2) INFORMATION FOR SEQ ID NO:1419:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 234 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1419:

```

GAATTCGGCC TTCATGGCCT AATTTTATAT TATTGTTAAA CACTGGGCTG GAATTATTGT      60
TTTGGGAAAA GGCCCATGAG AGTTTTTGCT CTGTGGGTTT TTAAAGGTAA GAATAAATTT      120
CGTGTGTTGAG ATGTTTTTGA TGTGCCTGTA ACCAGAATAG AAGTGTCTTA GATTATAACT      180
TTCTCTCAGA TTGAGTAATT CTGTTGTAAT AAGTCAGCAT ATGTTGCCAT CGAG              234

```

(2) INFORMATION FOR SEQ ID NO:1420:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 157 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1420:

```

GAAAATATTT TTA CTTTTAT AATTGATAGT ATTTCTTAAC TCTCAATTAA AAAAAGTTTT      60
TAAGCATTTT TGTGATATAG ATACTATCAT TTCATATTAC ACAATGCTTC TGATGATTTT      120
GCTGTTGTTG TTAGGGACTA CTCGAGGCAG GTCTAGA                                157

```

(2) INFORMATION FOR SEQ ID NO:1421:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 495 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1421:

```

GAATTCGGCC TTCATGGCCT ACCAGGATGA GAGGGGAAAA AGAAAGCCTC CAGTGACTTC      60
AGTTGCTTTG CCA GTTGTCT TGGGATTGTT TTACACCATC CTTTACTTCC CTTGCTCAGA      120
CCTCTCTGTT TCACCATGTC TCAGGCATTC AGGAAAAGTAT CTGCTCACTC CCACTTGGTG      180
AGTCCTCGGC CTTGAGGTTG CTGACTCTCA GGC GTTAGGC AGCTGGATGA CTTCCCGCTT      240
CATGCAGCAA AGGCCAGGGG CTTCGCGGCC TCTGCAGAGT TGTGCTAGG GAGACTTGTG      300
TCATCATCCA CAACCTTGTT TCTCACTTCC TGGTTGGGCT CATCTCTGAA GAACAGGTCT      360
CCCAGCTTCG CTCCTTATCA CTGCATTGTG AAGAGGAGGA AAAGTGAATC ACGGAGAGAG      420
AAAGGAAAGG ATAGAATCAC AGGCTGCATC TGCACCTGAA AAGTGACCCG CGGAAACTCT      480
ATGGCGGATC TCGAG                                495

```

(2) INFORMATION FOR SEQ ID NO:1422:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 449 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1422:

```

GAATTCGGCC TTCATGGCCT AGACAAAAGT AGAATTAGTA AACTACTACA TTGAGTACAC      60
TTTGTGTAA AATT CATAGG GAAGACTTCT TAAAAACAAG TGAAATTGTT AAACCCCCC      120
CTAAGCATT CAGATGGCTT ATAGCTGTCC ACGGGGTTGG TAGAGGTGGG AAAGGGAAGG      180
GTTCTAGGCC AGAATGTTCC TATTTAGAAG AACTCAAAT TACAGTCTGT GTTATGTATG      240

```

TATACCATTT ATTCAATGCT ACTGTGTATA TAATGGAAAA CTTAAGTCCA GTTTGAAACA	300
TCTAGTCTTT CTAGGTGTTT AAAAGTGTAC AACAGCCTGT CGCAGTGGCG CATGCCTGTG	360
GTCCCAGCAC TTTGGGAGGC CGAGGCAGGC GGATCACGAG GTCGGGAGAT CGGGACCATC	420
TTGGCCAGCA TGGTGAAACC CCTCTCGAG	449

(2) INFORMATION FOR SEQ ID NO:1423:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 306 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1423:

GGGAGTTTAT TATTCATTAA CGAAATTAGC CCTTTTATCT GCCATATAAT TTGCAACAAT	60
TTTATATCAG CTTTTTATTT GTCTTTTGGC TGTGTTATG AAAGTTATGG CCATGCAGAA	120
ATGTGGGATT TTATGTAGCA CAGTTGTCTC TTTTTTTTTT TTTGAGACG GAGCCTAGCT	180
CTGTCAACCA GGCTGGAGNG CAGTGGCATG ATCTCGGCTC ACNGCAACCT GTGCCTCCCA	240
GGTTCAAGCA ATTCTTCAGT CTCAGCCTCC CAAGTAGCTG GGACTACAGG CGCCACCCC	300
CTCGAG	306

(2) INFORMATION FOR SEQ ID NO:1424:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 362 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1424:

GAATTCGGCC TTCATGGCCT AGAACTTTGT ACACCATGGA ATGTTCTACT TATTATTTTG	60
TGCTACAATA TGTGCTGTTT CTTTGTTTTG AATTGCAGAT TGTCTACTAT GAAGCAGGGA	120
TTATTCTATG CTGTGTCCTG GGGCTGCTGT TTATTATTCT GATGCCTCTG GTGGGGTATT	180
TCTTTTGTAT GTGTGTTTGC TGTAAACAAAT GTGGTGGAGA AATGCACCAG CGACAGAAGG	240
AAAATGGGCC CTTCTGAGG AAATGCTTTG CAATCTCCCT GTTGGTGATT TGTATAATAA	300
TAAGCATTGG CATCTTCTAT GGTTTTGTGG CAAATCACCA GGTAAGAACC CGGATCCTCG	360
AG	362

(2) INFORMATION FOR SEQ ID NO:1425:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 194 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1425:

GAATTCGGCC TTCATGGCCT AGTATATCTG AAAAGTACAC TGTGTTTGA AATTATAAAT	60
TTTCATTCTG AATGAGGTTT CTTTTTTTGA TTTTCTTTAA AAAAAAAAAA CAACCTGCTT	120
TGATTTGCTT TACATTCTT GCCCTCCATT TTTCTTATTA TATTGTAAAC ATTAGAAAAA	180

TGAACACCCT CGAG

194

(2) INFORMATION FOR SEQ ID NO:1426:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 393 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1426:

GAATTCGGCC TTCATGGCCT AGCCATGTAT TTTCTAATAT CCCTTGGACT TCATCTTTGA	60
CTCATGTTTT ATTTTGAAGT ATTGGGATTG TTTTTCAGTT ATCTTTCTGT TATTATTTCT	120
ATTTAATTCT GTTATGGTCA TACAACATAA TTTAAATTCT TCTAAATTG TTGAGGATTG	180
TTTTTGTTGC CCAGAATATG ATGAATCTCT CATTGAATGT TGTATGTGCA GTTGAAAAGA	240
ATGTTTATTC TGCTGTTGGT GGGTAAAGTG TCATGAATAT AATTAGGAGA AATTAATGAT	300
AGTGTTAAGG TTTTCTATAT CCTTGCTTTT TTGGTGTA CT TATTTTATTG ATTATTGAGA	360
GAGAAGGGTT GAATTATCTA GGTGCAACTC GAG	393

(2) INFORMATION FOR SEQ ID NO:1427:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 119 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1427:

GCGATTGAAT TCTAGACCTG CCTCGAGCCA CCCCCTTAAT GTGTGTGTTG ACAGTGAAGT	60
CCTTGGGTGG GGCCATGTGT GTGTTTGTGA TGTTCCTTAA GTTGATGCAG CTCTCGAG	119

(2) INFORMATION FOR SEQ ID NO:1428:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 327 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1428:

GAAAAAGCAG TAAAAATAGA AATCCATCTT CACCAAGCCT TTAAAGCAAT ATAAATTTAT	60
ACTGAGGTTT CTGCATACTA TAACACACAG AAGGAATTCC TAAAAATGTT CTTTATCCAG	120
CTGTCTACCC AAAGTTCTAT CATCCTGGCA AACTGCTCTC TCCAAAATTC ATCATCTTGG	180
ACTCTCTCTG AAACCTCAAC CCTTCTCTCT TATACCCTGT TCTCCAACAT TCGAATTTGT	240
TTAGTTTGTG TTCTTCCTAA TATAGCTATT TCTGTTTACC ATTTTGAGCT CTGGAACCTC	300
AACCACTACT TACCACCAA ACTCGAG	327

(2) INFORMATION FOR SEQ ID NO:1429:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 325 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1429:

```

GAATTCGGCC TTCATGGCCT AATCACATAT ACACAATTTA CCCATTTCOA GTGTACACGT      60
AGTGGTTTTA GTATATTTAC AGATAGGTGC AACTATCACC ACAGTCAAAT TTAGAACCTT      120
TTCATCAACC CCAAAAGAAA CACCATACCC TTTAGGTATC GCCTCCCCTA TACTCCACCT      180
TCCAACCTGCT GAGCCCTAAG TTACCACTAA CCTTCCTATC TCTATAGATT TCCTTATTCT      240
GAACTTTTGA ATGGAATTAC AGTATCTGGT CTTTGTGACC TGTTTTTTTT TGAATAATGT      300
TTCAGGTTTC ATCCAGGCC TCGAG                                         325

```

(2) INFORMATION FOR SEQ ID NO:1430:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 226 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1430:

```

GAATTCGGCC TTCATGGCCT ACCTAAACCT GGCAGAGTAC ATCATGCCTC CGAGAAGAAA      60
CGTCATTCCA CTCCTTTGCC GAGCACTGCT GTACCAAGCC ATACACCTGG CAGCAGCCAG      120
CAGTCCCCGC TCAACAGTCC TCACCCGGGG CCCATCCGGA CAGGCCTGCC TCCTGGGCAC      180
CAGCAGGAAT TTGCCGGACG AGCCAACAGC ACCTCCAACC CTCGAG                                         226

```

(2) INFORMATION FOR SEQ ID NO:1431:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 256 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1431:

```

GAATTCGGTT CATGGCCTAG GATTAACAAC TTGGAAAAGG CCTATGATAC TCCTGGTAAA      60
CCTCTTTGTG CTGCTCTCTG TGGTTTGTGT CCTCTTAAAT CTAGCTGGAT TTATCCTAGG      120
CTGCCAAGGG GCCCAGTTTG TGTCCAGCGT GCCCAGGTGT GATCTGGTGG ACTTAGGTGA      180
AGGCAAGATT TGCTTCTGTT GTGAAGAATT TCAACCAGCC AAGTGCACAG ACAAAGAAAA      240
TGCCTTGAAA CTCGAG                                         256

```

(2) INFORMATION FOR SEQ ID NO:1432:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 240 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1432:

```
GAATTCGGCC TTCATGGCCT AGGTTGCGGT GAGTCGAGGT CTGCACTCCA GTCTAGGTGA      60
CAGAGCCAGA CCTGGTCTTT AAAAAAAAAA AAAAAAAAAA AGTGAATTCA AAAGATTAGC      120
TAAGACAAAT TGGGAAAAAA AACCAAAAGG GGAGTTGACC TAACAGATAT TAAGATGTAT      180
TTCTAAAGCC ATAGCAGCTA AAATAGTACA GTATTAATGT AGGGACAAAC AGAACTCGAG      240
```

(2) INFORMATION FOR SEQ ID NO:1433:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 229 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1433:

```
TCATTCTGAA CAAAAGGGAT TAGAGAAGAA AAATCTCTTG ATATAAGGCT TGAAAGCAAG      60
GGCAGGCAAT CTTGGTTGTG AATATTTTCT GATTTTTCCT GAAATCAAGC AGAAGATTGA      120
GCTGCTGATG TCAGTTAACT CTGAGAAGTC CTCCTCTTCA GAAAGGCCGG AGCCTCAACA      180
GAAAGCTCCT TTAGTTCCTC CTCCTCCACC GCCACCACCA CTCCTCGAG      229
```

(2) INFORMATION FOR SEQ ID NO:1434:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 268 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1434:

```
GAAATTGAAA CTCAAATCAG TTAGCTTCAA ACAAAAACGA AAGTTAGACC AAGGGAACGT      60
ATTAGATATG GAAGTAAAGA AAAAGAAACA TGATAAACAA GAACAGAAAG GAAGTGTGGG      120
AGCTACATTC AAATTAGGTG ACTCTTTGTC AAACCCAAAC GAAAGAGCCA TTGTAAAGA      180
AAAGATGGTA TCAAATACTA AGTCTGTAGA CACGAAAGCG AGTTCATCTA AATTTAGTAG      240
AATTCTAACT CCTAAGGAGC ATCTCGAG      268
```

(2) INFORMATION FOR SEQ ID NO:1435:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 247 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1435:

```
GAATTCGGCC TTCATGGCCT ACAAGACTGT CTCAAAAAGA AAAGAAACAC AAATATTTGA      60
ACTCCAAATA TTCTTTGTGT GTAGAAAAAT CTAATGGATA ATTAAACTA GAGCAGAGAG      120
```

AAAAGCCTAG GAGTTGAGAG ATTTTATAGAT ACGTGACTGA AAAGATTGGA AAAGGCTATC	180
AGTTTAAATG CTTGTGTCTG TCTTTGTGTG GGCCATGGTA TTTTGAAGA GCACCATGGA	240
GCTCGAG	247

(2) INFORMATION FOR SEQ ID NO:1436:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 258 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1436:

GAATTCGGCC TTCATGGCCT ACCTATTGT GCATCAAGTG GTTATCTAAA TAGTTTGAAA	60
GGATTGATAT ACTACATTAT ACGTCAAAAA TAAATAAATA AAATTAAGAA GACAGGGATT	120
CCAAGATTGT AGCTGACCAA GCTGTCTTGT TTTGCGTACA TCAACACTAT GCTGCTTCCA	180
ATATTCCTAG CCATTCCACA GGTAAATGATT TTTCAACAAT CAAGAGAAAAG TCATTCTTGT	240
ACTGTAACAT CTCTCGAG	258

(2) INFORMATION FOR SEQ ID NO:1437:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 415 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1437:

GAATTCGGCC TTCATGGCCT AAATCACTTG GATTGGTTCT CTAATTAAAA CACAAGCTAG	60
CTACCCAGTC TTGTATTTTG TATTTTAAAG AATTGTTAAA AAATAATTT TGTTTGTAT	120
TTGTGTAAAG CATAGTCATA ATTCTAAATC AAACACACTG CATCGAGTTT ATCACTGAAA	180
TTACAGCATCT GCTTTTGTC TCACTTTGTT ATCTTCTGCT CTCATCGATT ACAGGCGTGA	240
GCCACCGCGC CCGCGGTAT GTTCCTTACC CTTAAGGACA AGAAATACCG TTTGAAAACA	300
TTCTTCTTGA ACATTAACAA ACTTAGAATG GTACATTCAT TTAAGAATTA AAATAGGCAC	360
AAGAGGATTG AATTTTGGA ATATGTTGCT TAGAAATTG GGGGCAATTC TCGAG	415

(2) INFORMATION FOR SEQ ID NO:1438:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 267 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1438:

GCGATTGAAT TCTAGACCTG CCTCGAAGTG CCAGCAGCAG AGGAGATGAC ACTGACATAT	60
ACAACAGAGG CTGGGGTGGG CACTCCAGGA GCCTGGAGC GGAAGACCTC AGGGCTAGGA	120
CAGGAGCAAG AGGAAGGGTC AGAGGGCCAG GAGGCAGCCA CTGGGAGTGG CGATGGGAGG	180
CAGGAGACAG GAGCAGCTGA AAAATTCGA TTAGGATTAT CACGGGAGGG AGAGAGGGAA	240
TTGAGTCCGG AGAGTCTACA GCTCGAG	267

(2) INFORMATION FOR SEQ ID NO:1439:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 301 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1439:

```

GCGATTGAAT TCTAGACCTG CCTCGAGTCA TATCCCTGAG CAGTAGAGTA AATTAAATCC      60
TTTCTGAGAG TCTTAGATGT TTTTCTATGT CTCTTCTTTC TTATTCTCTC TCTGTTTCTT      120
TCTCTCACTC ACACACACAC ACACACACAC ACACACACCC CTAAAATTG TTCTGAATGG      180
CCCACTAGGG CTGAATCATT TAGTGACTTC ATTGATTACT ATCCTGAGTT CTCTTCCTG      240
CTTCCAGACT AGTGAATAA TTCCAGAAAG CTTTAATATT GGAGAAAAGG CAACGCTCGA      300
G                                                                    301

```

(2) INFORMATION FOR SEQ ID NO:1440:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 251 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1440:

```

GAATTCGGCT TCATGGCCTA GCATTGGAA GTAATTTTTT AAAACAACAT TCATATTAAT      60
TTAAGGAGCA TAACAGATTG CAGTGAATGT TATGATTGCG TATGTAAACA TTATTCTAGT      120
AAATATGTTG GAGAAGAACA GTTCTAGTGA ATTAACATG GTTTTGAAG GCAGCTATGC      180
TCACCATCAT ACCACCAACA CAACCATGGT TTTATTTTAT ATTATTTATT TTATTTTGA      240
GACAGACTCT C                                                                    251

```

(2) INFORMATION FOR SEQ ID NO:1441:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 274 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1441:

```

GGAATTGGAA AGCGTTTCCT TGCCAACACC AGAAATCCAG TCAGATTTCT TACATAGCAA      60
AGTCGAAGCT CCTCCTTCAG AGGTGGCGGA TACGTTAGTA ATAATGACTG CTTCCAAGGG      120
TGTTGACTC CCAGAACCCA AAGATAAGAT TTTGGAGACA CCTCAGAAAA TGACAGAAAA      180
ATCTGAATCA AAGACACCAG GAGAAGGGAA AAAGGAAGAT AAAAGCAGAA TGGCAGAACC      240
AATGAAAGGC TACATGAGAC CCACCAAGCT CGAG                                                                    274

```

(2) INFORMATION FOR SEQ ID NO:1442:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 274 base pairs

(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1442:

```
GAATTCGGCC TTCATGGCCT ACCTTTCTCC ATGTTTAACT GGGCTGCTCC CCATTCTCTG      60
CCTCCCTGTC TCCTCAGCCG CCAGAGCCCA GCCCCTCOGA CCAGGCCTCA CCCACCCCA      120
CCCGACCCTT CCCTGAGGGT CCTTTCCTCA GTACCACTGA CACTTGGAGG CAGGAAACCC      180
AAACCTCCTT AACTAAGGCC TCATTACCT CGAAAGCAGT GGTGCTTCCC TCTGTTTCATC      240
CAGGGCCATA AAGCCACTGT CCCCTTAACT CGAG                                274
```

(2) INFORMATION FOR SEQ ID NO:1443:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 257 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1443:

```
GAATTCGGCC TTCATGGCCT AATTGCGCCA TTGCACTCTA GCCTGGGCGA CGGAGCAAAA      60
CTCCATCTCA AAAAAAAAAA AAAAAAAAAANN NANTCNGAAA CAGAAAAAAAAA AAAAAGAATA      120
CACTGCATTG CCATTATCTA GTCACCCTGT GTAATATAGC AGCAGAACTC ATGCTTCCTG      180
TCTTAAGTGT AACTTTGTAT CTGCTGACCA ACCTCTCTCC ATCCCTCCTT CCCACCTACC      240
CTCCCCAGTC CCTCGAG                                257
```

(2) INFORMATION FOR SEQ ID NO:1444:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 258 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1444:

```
GAATTCGGCC TTCATGGCCT AGGAAGCATT AAATTGGGCC ATAGGAAGGA CAAGTCACAT      60
CCAGTTTAGT GATCAATGGT GGTGTTGGGAA AGAAATAACA GAATTCTACT CCTACATGAT      120
AGGGAGAGAC TACAGAGGCC ACCTAGACCA ACAAACCTCTG CCATCAGGTC CTTGAATCAT      180
TGCTACCATG TCCTGGTGGT GGTGTAGCA TTGCTAGTGA TATGTAATC ATTACCTACT      240
TATGCAAACC ATCTCGAG                                258
```

(2) INFORMATION FOR SEQ ID NO:1445:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 638 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1445:

GGATGGCTAC	GGCAGGGGGT	GGCTCTGGGG	CTGACCCGGG	AAGTCGGGGT	CTCCTTCGCC	60
TTCTGTCTTT	CTGCGTCCTA	CTAGCAGGTT	TGTGCAGGGG	AACTCAGTG	GAGAGGAAGA	120
TATATATCCC	CTTAAATAAA	ACAGCTCCCT	GTGTTCGCCT	GCTCAACGCC	ACTCATCAGA	180
TTGGCTGCCA	GTCTTCAATT	AGTGGAGACA	CAGGGGTAT	CCAGTAGTA	GAGAAAGAGG	240
AGGACCTACA	GTGGGTATTG	ACTGATGGCC	CCAACCCCC	TTACATGGT	CTGCTGGAGA	300
GCAAGCATTT	TACCAGGGAT	TTAATGGAGA	AGCTGAAAGG	GAGAACCAGC	CGAATTGCTG	360
GTCTTGCACT	GTCCTTGACC	AAGCCCAGTC	CTGCCTCAGG	CTTCTCTCCT	AGTGACAGT	420
GCCCAAATGA	TGGGTTTGGT	GTTTACTCCA	ATTCCNATGG	GCCAGAGTTT	GCTCACTGCA	480
GAGAAATACA	GTGGAATTCG	CTGGGCAATG	GTTTGGCTTA	TGAAGACTTT	AGTTTCCCCA	540
TCTTTCTTCT	TGAAGATGAA	AATGAAACCA	AAGTCATCAA	GCAGTGCTAT	CAAGATCACA	600
ACCTGAGTCA	GAATNGGTCA	GCACCAACCC	GACTCGAG			638

(2) INFORMATION FOR SEQ ID NO:1446:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 269 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1446:

GCGAGCTCGT	GTTTTAAAGG	ACCAAATAGA	AGTTTACCAG	GAGAGAAGTG	ACAGAAGTGC	60
TGTCTAGATA	GAGGAAGGGC	ACACACAGAT	GCAAGCATGT	GCAGAAATGA	GCAAACCACT	120
GAGACGCTGC	CTTGAGCTCT	GTGTCACT	GCTATGTTGC	AGCCTGGGAG	GCTGTTCCCA	180
GTTGAGCCCT	TCGGAACCAG	CCATGAGATG	GCACGGGTAC	GCGGAAGGGA	GCAGTCTCCA	240
TGGCTGGGTG	GTGATGGGGG	CTTCTCGAG				269

(2) INFORMATION FOR SEQ ID NO:1447:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 355 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1447:

GGTCTCTCGC	CGCCGGAGGA	AGATGAGGCT	GAAGATTGGA	TTCATCTTAC	GCAGTTTGCT	60
GGTGGTGGGA	AGCTTCCTGG	GGCTAGTGGT	CCTCTGGTCT	TCCCTGACCC	CGCGGCCGGA	120
CGACCCAAGC	CGCTGAGCA	GGATGAGGGA	AGACAGAGAT	GTCAATGACC	CCATGCCCAA	180
CCGAGCGCGC	AATGGACTAG	CTCCTGGGGA	GGACAGATTC	AAACCTGTGG	TACCATGGCC	240
TCATGTTGAA	GGAGTAGAAG	TGGACTTAGA	GTCTATTAGA	AGAATAAACA	AGGCCAAAAA	300
TGAACAAGAG	CACCATGCTG	GAGGAGATTC	CCAGAAAGAT	ATCATACTTC	TCGAG	355

(2) INFORMATION FOR SEQ ID NO:1448:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 366 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1448:

```
GAATTCGGCC TTCATGGCCT ATCCTCTGCC AAGACCAAAA GGAAAGAAGA AAAAGGGCCA    60
AAAGCCAAAA TGAAACTGAT GGTACTTGTT TTCACCATTG GGCTAACTTT GCTGCTAGGA    120
GTTCAAGCCA TGCCTGCAAA TCGCCTCTCT TGCTACAGAA AGATACTAAA AGATCACAAAC    180
TGTCACAACC TTCCGGAAGG AGTAGCTGAC CTGACACAGA TTGATGTCAA TGTCAGGAT    240
CATTCTCTGG ATGGGAAGGG ATGTGAGATG ATCTGTTACT GCAACTTCAG CGAATTGCTC    300
TGCTGCCCAA AAGACGTTTT CTTTGACCA AAGATCTCTT TCGTGATTCC TTGCAACAAT    360
CTCGAG
```

(2) INFORMATION FOR SEQ ID NO:1449:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 267 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1449:

```
GATTTCCTTAC CCAAAGCTCT GGAATTGTAC ATTTATTTTT TAAAACTCAA AGAGGGAAAG    60
AGCCTTGATAT CATATGTGAA CATTTGATCA TAGGTAATGT TGTACAGACC CTTTATACA    120
GTGATCTGTCT TTGTTCTTGC AGCAAAAATC CTCTATGGAC ATAGGAGGTG CTGTGTCCCA    180
TGCCCTCTTG CCCTGACAGT GTCCCATGGG CCCCTTCTG CTCCTGCCC CCTCCCTGCT    240
ACTGCTGATG CACTCCCCC CCTCGAG
```

(2) INFORMATION FOR SEQ ID NO:1450:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 431 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1450:

```
GCGATTGAAT TCTAGACCTG CCTCGAGACC TGGGGGGAGA TTGGGCTCCC TTTCCTCATG    60
ACATCCTGCC CTATCAGGAC TCTGGAGATA GTGGGAGCGA CTACCTTTTC CCAGAAGCTA    120
GTGAAGAATC AGCAGGCATC CCGGGAAAGT CAGAACTTCC CTACGAAGAG CTGTGGCTGG    180
AGGAAGGCAA GCCCAGCCAT CAGCCTCTCA CTCGCTCTCT GAGCGAGAAG AACAGATGTG    240
ATCAGTTTAG AGGTTCTGTC CGATCCAAAT GTGCGACTTC TCCTCTTCCC ATCCCTGGGA    300
CTCTGGGAGC AGCAGTGAAG TCTTCAGATA CTGCCCTACC TCCACCTCCA GTGCCTCCA    360
AATCTGAAGC CGTCAGAGAA GAATGCCGGC TCCTGAACGC CCCACCTGTT CCACCCCGAA    420
GCGCACTCGA G
```

(2) INFORMATION FOR SEQ ID NO:1451:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 347 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1451:

GCCTGCCCC	ACCTTACAGG	TCTGGGATGT	ACCTTTCCAT	CTGTTGCTGC	TTTCTTCTAT	60
GGGCCCCG	CCTCACTCTC	AAGAACCTCA	ACTACTCCGT	GCCGGAGGAG	CAAGGGGCCG	120
GCACGGTGA	CGGGAACATC	GGCAGGGATG	CTCGACTGCA	GCCTGGGCTT	CCGCCTGCAG	180
AGCGCGGCG	CGGAGGGCGC	AGCAAGTCGG	GTAAGTACCG	GGTGCTGGAG	AACTCCGCAC	240
CGCACCTGCT	GGACGTGGAC	GCAGACAGCG	GGCTCCTCTA	CACCAAGCAG	CGCATCGACC	300
GGGAGTCCCT	GTGCCGCCAC	AATNCCAAGT	GCCAGCTGTC	CCTCGAG		347

(2) INFORMATION FOR SEQ ID NO:1452:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 335 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1452:

GGGGCAGAAG	TTGAATATAC	CGGCAATTTT	GCGAGCACCC	AAGGAGAGAA	AACCAAGTAA	60
AAAAGAAGGA	GGCACACAAA	AGACATCTAC	TCTTCCTGCA	GTACTTTATA	GTTGTGGGAT	120
TTGTAAGAAG	AACCATGATC	AGCATCTTCT	TTTATTGTGT	GATACCTGTA	AACTACATTA	180
CCATCTTGGA	TGTCTGGATC	CTCCTCTTAC	AAGGATGCCA	AGAAAGACCA	AAAACAGTTA	240
TTGGCAGTGC	TCGGAATGTG	ACCAGGCAGG	GAGCAGTGAC	ATGGAAGCAG	ATATGGCCAT	300
GGAAACCCTA	CCAGATGGAA	CCAAAACAAC	TCGAG			335

(2) INFORMATION FOR SEQ ID NO:1453:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 627 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1453:

GCGATTGAAT	TCTAGACCTG	CCTCGAGATC	CCCATGACTC	CTACATCCTC	TTTTGTGTCT	60
CGCCACACAC	CCACTGCCTC	ACCTCATTC	AACCGGACCA	CACCGCCTGA	AGCGGCCAG	120
AATGGCCAGT	CCCCCATGGC	AGCCCTGATC	TTAGTAGCAG	ACAATGCAGG	GGGCAGTCAT	180
GCCTCAAAAG	ATGCCAACCA	GGTTCCTCC	ACTACCAGGA	GGAATAGCAA	CAGTCCGCC	240
TCTCCGTCCT	CTATGAACCA	AAGAAGGCTG	GGCCCCAGAG	AGGTGGGGGG	CCAGGGAGCA	300
GGCAACACAG	GAGGACTGGA	GCCAGTGCAC	CCTGCCAGCC	TCCCGGACTC	CTCTCTGGCA	360
ACCAAGTCCC	CGCTGTGCTG	CACCTCTG	CACGAGCGGC	TGGAGGACAC	CCATTTTGTG	420
CAGTGCCCGT	CGTCCCTTC	GCACAAGTTC	TGCTTCCCTT	GCTCCAGACA	AAGCATCAAA	480
CAGCAGGGAG	CTAGTGGAGA	GGTCTATTGT	CCCAGTGGGG	AAAAATGCCC	TCTTGTGGGC	540
TCCAATGTCC	CCTGGGCCTT	TATGCAAGGG	GAAATGCAA	CCATCCTTGC	TGGAGATGTG	600
AAAGTGGA	AAGGAGACG	ACTCGAG				627

(2) INFORMATION FOR SEQ ID NO:1454:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 394 base pairs
- (B) TYPE: nucleic acid

(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1454:

GAACTTTGAC ACCTACACTT AAATTCTGAG TCATTAAACA GGCCTACATT TATCAACTGT	60
GGAAATATCA GCCAGTTTTT GCAAACCTCT TCTTAGGACA CTAAGTTGTT TGCAGAAATC	120
ACTAGCATTG ACTGACTCAG CAACAATGTG GTTATATTCT TTGATTAACT TAGTCCTTTT	180
TCTTGGTCAA GAGTCAGTAG ACAGGACTGA AGCTTATGCC CCTTGCCCCC CCACCACCAC	240
TCCATTACTA CCACCTTGGT TTAGCCATCC TTTCTTGATC TGTTCCTCCC ACTTCTACTG	300
TGCTACTCTA CAGACTTGCC CTGAATGTAA GAGCAACAAT TACCTTGTAAG AGTCCAAGTT	360
GGGGCAGGTC ACTCCCAAAC TCCACAACCT CGAG	394

(2) INFORMATION FOR SEQ ID NO:1455:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 381 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1455:

CAGATGTTCA GATATATCTT GAATTTTCTA CGAACATCCA AACTCCTCAT TCCTGATGAT	60
TTCAAGGACT ACACTTTGTT ATATGAAGAG GCAAATATT TTCAGCTTCA GCCCATGTTG	120
TTGGAGATGG AAAGATGGAA GCAGGACAGA GAAACTGGTC GATTTTCAAG GCCCTGTGAG	180
TGCCTCGTCG TGCCTGTGGC CCCAGACCTC GGAGAAAGGA TCACGCTAAG CGGTGACAAA	240
TCCTTGATAG AAGAAGTATT TCCAGAGATC GGCGACGTGA TGTGTAAGTC TGTCATGCA	300
GGCTGGAATC ACGACTCGAC GCACGTCATC AGGTTTCCAC TAAATGGCTA CTGTCACCTC	360
AACTCAGTCC AGGTCCTCGA G	381

(2) INFORMATION FOR SEQ ID NO:1456:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 309 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1456:

GGTGAGCCT GCTTACATC TCTAATGAAC ACCCTCATGA CGTCGCTACC AGCACTAGTG	60
CAGCAACAGG GAAGGCTGCT TCTGGCTGCT AATGTGGCCA CCCTGGGGCT CCTCATGGCC	120
CGGCTCCTTA GCACCTCTCC AGCTCTTCAG GGAACACCAG CATCCCGAGG GTTCTTCGCA	180
GCTGCCATCC TCTTCCTATC ACAGTCCCAC GTGGCGCGGG CCACCCCGGG CTCAGACCAG	240
GCAGTGCTAG CCCTGTCCCC TGAGTATGAG GGCATCTGGG CCGACCTGCA GGAGCTCTGG	300
TTCTCTGAG	309

(2) INFORMATION FOR SEQ ID NO:1457:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 374 base pairs
(B) TYPE: nucleic acid

(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1457:

GCACTATTAA	ACAGATACAA	CACAGAATAG	TATGTATAGA	GCATGGTATG	TAGCAGGGGC	60
CTATTCTGT	CTGAGTGGAC	AAGGAGGCTT	CCTAGAGGAA	GCAACATTTA	AAGCTGAGGG	120
CTGAAGGATG	AATAGGATTT	AACCAAGTAA	AAGTAAGAAA	GGAAGTGGGG	AGCTGAAAAG	180
GGCATTCCAG	GAAGAAGAAA	CTGCAATGTC	AAAGGCCAGG	AGGTCAGAGC	GCACAGTGGA	240
TATGACGATG	TGGCTAGCTG	AGCATGTCTG	TGCAGTGTCA	ACTTTGTTGT	GAACACAGAG	300
GGAGGCTACT	GGGAAATTTT	AAGCAAGAGA	GTTGGAGTAT	GATCACATTT	GCATGTTAGA	360
AAGACACACT	CGAG					374

(2) INFORMATION FOR SEQ ID NO:1458:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 316 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1458:

GAATTCGGCC	TTCATGGCCT	ACATATTTAT	TATGTCAACC	TGTACTTCCC	TTTCCCTCTT	60
CCTCTCCCTC	TTTTCTCTCC	CTCTCCCTCT	CTCTCTCTTC	CTTCTCCTCC	TTCCAGGTAC	120
CCTAGATGAA	CCATGGGAGG	TCCTGGCTAC	ACAGCCATTC	TGTCTGAGAG	AGTCTGAGGA	180
CTCTGAGACC	CAGCCTTTTG	ACACGCACCT	TGAGGCCTAT	GGACCTTGCC	TGCTCCACCC	240
TAGGGCAATA	CCAGGAGACC	AACATCCAGA	GAGCCCAGTT	CACACAGAGC	CAATGGGGAT	300
TCCGGGCAGG	CTCGAG					316

(2) INFORMATION FOR SEQ ID NO:1459:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 417 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1459:

GGAACCACCA	ATTCCGGACA	CACTGGGATT	ACAGTTCCAG	GAAGGATGTT	ACCTTTGACG	60
ATGACAGTGT	TAATCCTGCT	GCTGCTCCCC	ACGGGTCAGG	CTGCCCAAAA	GGATGGAGTC	120
ACAAGGCCAG	ACTCTGAAGT	GCAGCATCAG	CTCCTGCCCA	ACCCCTTCCA	GCCAGGCCAG	180
GAGCAGCTCG	GACTTCTGCA	GAGCTACCTA	AAGGGACTAG	GAAGGACAGA	AGTGCAACTG	240
GAGCATCTGA	GCCGGGAGCA	GGTTCTCCTC	TACCTCTTTG	CCCTCCATGA	CTATGACCAG	300
AGTGGACAGC	TGGATGGCCT	GGAGCTGCTG	TCCATGTTGA	CAGCTGCTCT	GGCCCTGGA	360
GCTGCCAACT	CTCCTACCAC	CAACCCGGTG	ATCTTGATAG	TGGACAAAGT	GCTCGAG	417

(2) INFORMATION FOR SEQ ID NO:1460:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 222 base pairs
(B) TYPE: nucleic acid

(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1460:

GAATTCGGCC	TTCATGGCCT	ACTGAGAAAA	AAAATCAAAT	CTAATTTTAA	AATGAAGGTA	60
TTTAAAACCA	TGGCACAAGG	GAGCCTTATT	TATGGAGCTG	GTGGGAAGCC	AGGATGTTC	120
CAATCCGCTG	CTCTTACAGG	AGCCTGTGCC	TCGCCAGTTC	TGTGCTGCAG	TGGGCAGCCA	180
ACTGAAGTGC	ATGAGTCAAA	TGCACGAAGC	AGCAGACTCG	AG		222

(2) INFORMATION FOR SEQ ID NO:1461:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 256 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1461:

GCTGCCTCCA	TACTGTTTTA	GGCAGCACCG	TTTATGTGAC	AGAGTCCGTG	TTTCTCAAAT	60
GCATGGTGT	CCTCAGGTGG	AGAGTGGGCA	GAAGTTTTTG	CAACACTTTT	TTTTTAAGTT	120
ATTGGGTGCA	AAATCCCAAA	CCAGGATATG	TGTATGTCTG	TGTGTTTATG	TTTTTTATTT	180
GACCTCCCC	TCTTTCAACC	TACCCCTTT	TATATCTAAT	GTAGAAAAAG	CGAAATTGAA	240
TC TGAAAAA	CTCGAG					256

(2) INFORMATION FOR SEQ ID NO:1462:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 250 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1462:

GGGGGTGGAA	GGCGTAGTGC	TTGAAATGCA	GGGATCTGGC	AGTCAGCAGA	AGGATCTGAG	60
ACCCAGTGTC	GAGGTTAAAA	AAAAAACAAA	AAACCAAAAA	CCAATGCAGG	AATCCAGTGG	120
GTGGAGTGAG	GGGATCTGGG	ATCCAGTGAT	GGGGCCCCCA	GGATCCAGGC	ATTGTGGTTG	180
TCAGGATCCA	GTGGTGAGGT	TTGTTGACAT	CCAGAATCCA	GCAGCTGAGC	TTGGAGATCC	240
AGGGCTCGAG						250

(2) INFORMATION FOR SEQ ID NO:1463:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 279 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1463:


```

GAATTCGGCC TTCATGGCCT AAGTTTATAA AAATTCAGC CAGAAAAACC CAGGTAAGGA      60
TTTTTTTAT TTTTITTTA TTTTATTTT TAGACCAGGT GAGAATCCTT TGTTCCACTG      120
AGATTTTAA ATTTAGTACA TTCAAATTG ATATTTCTAC CATTTTCTCA GCCTGCTTGT      180
CTTCTTATCT TTGCAGCACT GCTTATTGCC ATCACTGCTT ATCTGTTTAC TCAACTTGAA      240
ACCTCAGAAT TGTCTTGAC CTCATCCCCA CATCTCGAG      279

```

(2) INFORMATION FOR SEQ ID NO:1464:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 266 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1464:

```

GAATTCGGCC TTCATGGCCT AGGCCATTTG GTTCTAAACT GCTTGACTAG TTTTAAGCTC      60
ACATAATTCC TTAAGCTTTC ATATTTTCTT AAATGCAAGG AAATGAATAT AAAAGCACTA      120
AATCTCCTGG TTAAGCTTTC CAAAAATTAC AATGGTCAGT TCCCTTAGGT CATCAAAAAC      180
TAGTCACAAA AATAGTTCTT GTATTCAACC TGAATGTGCC ACAGGAAAAA AAAAATATTT      240
TCAAGATTTT CCAGCTCAGC CTCGAG      266

```

(2) INFORMATION FOR SEQ ID NO:1465:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 259 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1465:

```

GAATTCGGCC TTCATGGCCT AAACATTTTC TGAAAAACGT GATAGAAAGA AGGAGGAGCT      60
GTTTCTAGGA GGGAAATAAA TAATTGGCA GGAGACTTTT TGAAGTAGAT ATCTATTGAA      120
TAACAAAGTG ACAATGTTCC CCATCCTCTC ATTTCCATTC CCAATTTTAC TTCTCGTCCC      180
AATTCAAATC ATTCTTACTT ATGATCGGCG CTATGTCAGT GCCTCTCAGC TGGTCTTCCC      240
AGACCCAGTC ACCCTCGAG      259

```

(2) INFORMATION FOR SEQ ID NO:1466:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 332 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1466:

```

GCGCCTATCA CAAGCAGATC ATGGGTGGCT TCAAGGAGAC GAAGGAGGCT GAAGATGGCT      60
TCCGCAAGGC CCAGAAGCCT TGGGCCAAGA AGATGAAGGA GCTGGAGGCA GCCAAGAAGG      120
CCTACCATTT GGCTTGCAAA GAGGAAAAGC TGGCCATGAC ACGGGAGATG AACAGCAAGA      180
CGGAGCAATC GGTCAACCT GAGCAGCAA AGAAGCTGCA GGACAAAGTG GACAAGTGCA      240

```

AGCAGGATGT GCAGAAGACA CAGGAGAAGT ATGAGAAAGT GCTGGAAGAT GTGGGCAAGA 300
CCACACCCCA GTACATGGAG AACAACTCG AG 332

(2) INFORMATION FOR SEQ ID NO:1467:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 301 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1467:

GCTCGAGATG TGCTGTCTTC CATGCAAAGT GGAATTTGAC AATCACTGTG CCGTGCCTTG 60
GGACATCCTG AAAGCCAGCA TGAACACATC CTCTAATCCT GGGACACCGC TTCCGCTCCC 120
CCTCCGAATT CAGAATGACC TCCACCGACA GCAGTACTCC TATATTGATG CCGTCTGTTA 180
CGAGAAACAG CTCCATTGGT TTGCAAAGTT TTTCCCCTAT CTGGTGCTCT TGCACACGCT 240
CATCTTTGCA GCCTGCAGCA ACTTTTGCT TCACTACCCC AGTACCAGTT CCAGGCTCGA 300
G 301

(2) INFORMATION FOR SEQ ID NO:1468:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 436 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1468:

GAATTCGGCC TTCATGGCCT AGTGGAAAAT GGGAGGCATG AAATACATCT TTTGTTGTT 60
GTTCTTTCTT TTGCTAGAAG GAGGCAAAAC AGAGCAAGTA AAACATTCAG AGACATATTG 120
CATGTTTCAA GACAAGAAGT ACAGAGTGGG TGAGAGATGG CATCCTTACC TGGAAACCTTA 180
TGGGTGTTGTT TACTGCGTGA ACTGCATCTG CTCAGAGAAT GGGAAATGTGC TTTGCAGCCG 240
AGTCAGATGT CCAAATGTTT ATTGCCTTTC TCCTGTGCAT ATTCCTCATC TGTGCTGCC 300
TCGCTGCCCC GAAGACTCCT TACCCCCAGT GAACAATAAG GTGACCAGCA AGTCTTGCGA 360
GTACAATGGG ACAACTTACC AACATGGAGA GCTGTTTCGTA GCTGAAGGGC TCTTTCAGAA 420
TCGGCAACCA CTCGAG 436

(2) INFORMATION FOR SEQ ID NO:1469:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 297 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1469:

GAATTCGGCC TTCATGGCCT AGTCTGGGCA ACAGAGCGAG ACCTTGCTCT AAAAAAAAAA 60
AAAAAAAAAC AAAGTAAAAA AAGATATGTG TTTGATTAAAT AACAGTCCTG ATTTAAACAA 120
ACAGCACTGT CTTTGTAGCC TTCACTCAGT ATGCAACTCC TTTATACAGA TTTTATTTTA 180
ATTTTATATA CACACTGCTT GAGAAGCATA TTTATTTCCG TTTTGTGTG TGCATGTGGT 240

GGACAGGAAA CAGTGGTTCA GAGAGATGAA GCACCTGCCC CACCACATGC ACTCGAG 297

(2) INFORMATION FOR SEQ ID NO:1470:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 325 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1470:

GAATTCGGCC	TTCATGGCCT	AGGACCTATT	CTATCAGCAG	CATTTGACAC	CACTGATTAC	60
TCATTCTGCT	CTGGTGTACT	TTCTTCAATT	GCTTCCAAGA	CACCATAAAT	TCTTCTGCCT	120
TGCTGGCTGC	CTTTGCTGGT	TCCTCCTCTT	CTCCCTGACC	TCTTAATGTT	GGAGAACCAC	180
AGGGCTTAGT	CCTTGGTCCT	CTTCTCTCTT	TTCTTTACAC	TGTGGTCCTC	AGTGAGGGAG	240
ATAGGTAGAT	CCACTGTCCC	GATCTTAACC	CAAAGAAAGA	CTTGCTGTCC	AGCTACGGGG	300
GCTGTGTGTC	GAAGGCAGCC	TCGAG				325

(2) INFORMATION FOR SEQ ID NO:1471:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 421 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1471:

GAATTCGGCC	TTCATGGCCT	ACAAAAGGAT	GGGAAATGCC	TGCATTCCCC	TGAAAAGAAT	60
TGCTTATTTT	CTATGTCTCT	TATCTGCGCT	TTTGCTGACT	GAGGGGAAGA	AACCAGCGAA	120
GCCAAAATGC	CCTGCCGTGT	GTAATTGTAC	CAAAGATAAT	GCTTTATGTG	AGAATGCCAG	180
ATCCATTCCA	CGCACCCTTC	CTCCTGATGT	TATCTCATT	TCCTTTGTGA	GATCTGGTTT	240
TACTGAAATC	TCAGAAGGGA	GTTTTTTATT	CACGCCATCG	CTGCAGCTCT	TGTTATTCAC	300
ATCGAACTCC	TTTGATGTGA	TCAGTGATGA	TGCTTTTATT	GGTCTTCCAC	ATCTAGAGTA	360
TTTATTTCATA	GAAAACAACA	ACATCAAGTC	AATTTCAAGA	CATACTTTCC	GGGTACTCGA	420
G						421

(2) INFORMATION FOR SEQ ID NO:1472:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 233 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1472:

GAATTCGGCC	TTCATGGCCT	AGTACTCCAT	CTCATCCATC	TCATGGTAGT	TCAGAAATGC	60
CTATATTCTT	TCTTAAATTC	ACCAGGATTT	TTGTTTTTTC	TTTACCCCCC	TTTTTGCTTT	120
TCTTATTTTC	ATCCTTCCAT	TTCACTCATT	TCACTCATG	TTAGCAGTT	TCTATCCTTT	180
TCTTTCTTGG	CGTTTTAGCG	TCACACATAG	AAACCTATCA	CCATCAGCCC	TCG	233

(2) INFORMATION FOR SEQ ID NO:1473:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 253 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1473:

```

GCGATTGAAT TCTAGTTGCC TACCTACCAA ACTACCTACT GAACTTTTTA ATTTGAAGAT      60
ATTCTTCCTG GACTACTTGT TTATAGTTTA TTAAATGAAC TGCTCTATTT CTAAAAACTT      120
TATTTTAAAG GTCTTTTCCC GTTTAGAATG CGGCATACTC TTGCTTGTGG GGTATATATC      180
TCTGATCGTG ATAACCTACCT ACCGAAAACC TTTCATGGCT CCTTGCCAAC TACAAAATTG      240
CGATATCCTC GAG                                     253

```

(2) INFORMATION FOR SEQ ID NO:1474:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 424 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1474:

```

GAATTCGGNC TTCATGGCCT ACCGCAAGTT CCTCCTGACC TTCAGGGAGC CTGACTTAGA      60
GAAGAAGTAC TCCAAGCAGG TAGACGACCG ATTTGGTGCC TATGTGGCGT GTGCCTCGCT      120
CGTCTTCCTC TTCATCTGCT TTGTCCAGAT CACCATCGTG CCCCACTCCA TATTCATGCT      180
CAGCTTCTAC CTGACCTGTT CCCTGCTGCT GACCTTGGTG GTGTTTGTGT CTGTGATCTA      240
CTCCTGCGTA AAGCTCTTCC CCTCCCCACT GCAGACCCTC TCCAGGAAGA TCGTGCGGTC      300
CAAGATGAAC AGCACCCCTGG TTGGGGTGTT CACCATCACC CTGGTGTTC TGGCGGCTTT      360
TGTCACATG TTCACGTGCA ACTCCAGGGA CTGCTGGGC TGCTTGGCAC AGGAGCGTCT      420
CGAG                                     424

```

(2) INFORMATION FOR SEQ ID NO:1475:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 315 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1475:

```

GAATTCGGCC TTCATGGCCT ACTCTGTGTT GGTAAGTAAA AGCCCTCCAG CATAGGTATA      60
CACTTAGTTG TTCCTTCCAG TGGTTATCAT ACTTCTTTTC TTGCCATAGT TACATGCTAA      120
CAACGTCCCA AAGCTATAGT TGCTCTTGCA TTTTGTTCCT AATTCTTGTA AGATAAACTA      180
ATAATACAGG GAGTAAATGT GCACTGTTTA TTAATTAAAA TCCCCGGGAC ACGGGATAAA      240
CTGAAGGAAA TCGTGCTTTT TGAAAAGTAG GTGTAGCTTG CCATGCTGCA TTGTCTTATA      300
CCCACAAAAC TCGAG                                     315

```

(2) INFORMATION FOR SEQ ID NO:1476:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 321 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1476:

```
GAATTCGGCC TTCATGGCCT AGCCATCATG TTTATTAGAA GGTGATTT TGGTGTGTC      60
TCTAGACAGA TACAGAATAA ATACCTGCGC CTGAGAACA GGAAGTCCAC GATTCATACA      120
AAGTGCTCAC TACAGGAAGT TGCTGTGTCA AAATCCAGGC AAGGACCCAA CTCCGGGCAG      180
CCCCTCCTCC CTGCTGACCT CAACAAGGGC TGTGCTATTG TTTTATTATT TATTATTTTA      240
TTTCTCTTTA TTATTATTAA TATTATTATT ATTTGCTTTT GCTGTGGTCA CTATCATTGG      300
CAAAGTTCCT TTTCCCTCGA G                                     321
```

(2) INFORMATION FOR SEQ ID NO:1477:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 215 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1477:

```
GAATTCGGCC TTCATGGCCT AAGCAAAGCT AAGTGTAATA CTAAAAAGCA GTTGTGTC      60
ACTGGTCATA AAAGTGATTA AATCTAAAGC TGGCATTAAAT AAGGAAGCAA GGTAAATAAAA      120
CAAAAATATA AACAGCTTTG AGAAAGTACA CCTAATAACA AAATCTTGTA ACACAACAAA      180
TGAAAATCAC AAAAAATATA AGGAGACTCC TCGAG                                     215
```

(2) INFORMATION FOR SEQ ID NO:1478:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 291 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1478:

```
GAATTCGGCC TTCATGGCCT AATCGGTCTC CTTTGGAGAG ATCACTAGAA CAGAAAAACA      60
ACCCAGATTA TAACTGGAAT GTTCGGAAAA CATAAAGGAC AGCTCGTAAA GGAGAGAGTA      120
AGAGTCACCA AACACGTGGA TATTTTGGT CTGATCCTAC AGTAGCCGGT TATCTAGACC      180
AGTAAGTGGA GTTTTGGACA TGCTGCTGCT GTCAACTCAC TGGCTGAAGG AGCACTTCAA      240
GGAATGGGAG GCCTTTCCT GGGTCCAGCT CTGATTCGGA TCACTCTCGA G                                     291
```

(2) INFORMATION FOR SEQ ID NO:1479:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 514 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1479:

```

GAATTCGGCC TTCATGGCCT AGAGAAAGAA ATGGCTCGAA CAGAAAACAG TGGTCTTGAA    60
AGGCAACGCA ACAGTAGGTT ACAAATAGCA TTAGCTTTTT CTTTAAAGAA ATTCATTGTA    120
ACCACTGAAG GATAAGATT TAAATTAGAA AAATGGAAAT CCTATGAATA AAAAAGTAGT    180
AAGCTTGAGA GCAGAATCAC TGTGGAAAAA AAACAGATTG AAAAAATACT TGCAGGTATC    240
ATAGACAGGA AATTGCCACT AGAGAAAACA GGAAACTTGT GATAGATAAA AATGAAGTAT    300
TTTCATTTGG AACAAGAGAC CAACTGAAGA GAGATCAAGT GAAGGGGGTT TATTTTAATG    360
AAACACAAAG ATTCTTGTGG AAATCAAAGT GCCGGAGCCA GAAACAGGGC TCAACCTTCA    420
AGATTAGAGC TGTATTCAAG TTGTTCAAGT TGGCTCTCGG TCCCAAAGCA ACAGCAATGT    480
CACTAAGGTT ACAAGTAAAA GGTAAGCCCT CGAG                                514

```

(2) INFORMATION FOR SEQ ID NO:1480:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 194 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1480:

```

GAATTCTAGA CTTGCCCCCT CACTGCTCCC CATACCTGG CACGATGCGT TCCTGGTCAC    60
TGATCACCAT CATTTTGGGA AGAGAATCCC AATCCCTGGC ACCTGGGTTT GCCTCATCCA    120
ACCATCCTTC CCTTCTCAG CTGCACCCCC TCTGCAGATC TGAAGACACA CCTCACTCTT    180
CCAGGGCCCT CGAG                                194

```

(2) INFORMATION FOR SEQ ID NO:1481:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 385 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1481:

```

GACGCGCCCG GCCTCCTCTT TCATTTCAGT ATACGTAATA AGAAGTCAGA AATTACCTTT    60
AACCAAGCCT GGAAATCTCC TTATCTAGAT CATTATATTC TTTAGGTACA TTTTCTACTT    120
TCTACATTAC CACTCACAAAC AATATTGCTA AATTTTTTCC TCTAAATAAG AAGGATTCCC    180
TTTTTCTAAT AACACTTTCT TTAATTTTCT TTAACCTTTC ACTGAAAGCC CCCTCAAAG    240
CTACCTGGCT TATGCTAACA GTATGTTTGA TGTCTTTTCA ATACTACTCT GTTTCATCT    300
GTCTAGCATC CACCTGCCTC CCAATCTCAA AGTCTCCATC ATATTTTGTC AGTTTTTAGT    360
TTTTTTGTTA TGGTGCAACC TCGAG                                385

```

(2) INFORMATION FOR SEQ ID NO:1482:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 376 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1482:

GAATTCGGCC	TTCATGGCCT	AGGTTCTGGG	ATAGCTGATT	GTTGGCCACC	CCCGCCCTGG	60
AATGGAAACC	CTGTTAGGCC	AGGGCCAGAG	CAGGTGGCCA	TGAAGCAAGA	CGGCAAAGGC	120
ATTGGAGGAT	GTCCACCTC	CACACATACG	CCCAGGCATT	TCTTGGCTGG	GGAATGGTGT	180
TACAGGATCC	ACAAGCACAG	AGATGGGAAA	ACAGTGTGTC	TGGGGAACAC	CAAGAGTTGG	240
GGTTGCCTGG	AGGACAGATA	GACTCAGGGG	GGACATCCAG	AGGTAACACT	AGGTCCGCAG	300
GTGGGTTCAG	AGGCCCCAGC	TCTATCCCCT	TATCCCAGC	CGGATTAAAG	AATAATCTGA	360
GTATGGTTCC	CTCGAG					376

(2) INFORMATION FOR SEQ ID NO:1483:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 347 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1483:

GAATTCGGCC	TTCATGGCCT	ATGGATCCAT	CATGGGACAA	TTACTAGTTA	TTTACTTTCC	60
TCCGCTTCAG	AAGGTTTTTC	AGACTGAGAG	CCTAAGCATA	CTGGATCTGT	TGTTCTTTT	120
GGGTCTCACC	TCATCAGTGT	GCATAGTGGC	AGGCTGGTC	AGTAATCTTC	TCTACTGTTA	180
TAGTACAGCA	GCTTTTAGGT	CCACTGATTG	CATTCTTAAT	TTGAGTATT	AATATTTATT	240
TTATTAACCT	AAGGTTTTCA	TTTGTCACTA	TAGCATGGTC	TCATAATTTT	CAAAAAATCA	300
GAAAACAGTA	GATGTTGGCG	TGGATGCAGT	GAACAGGGTT	ACTCGAG		347

(2) INFORMATION FOR SEQ ID NO:1484:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 709 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1484:

GAATTCGGCC	TTCATGGCCT	ACGAGAATAT	TGTGGAGAAC	TGGTCAGTAG	AAGAACAAGC	60
AATGGAAATG	GATTTGAGTG	TCCTTCAACA	GGTAGAAGAT	CTAGAAAGGA	GAGTTGCATC	120
AGCAAGTTTG	CAAGTGAAGG	GTTGGATGTG	TCCAGAGCCT	GCATCAGAAA	GGGAGGACTT	180
GGTATATTTT	GAACATAAAT	CATTTACTAA	ATTGTGCAAG	GAGCATGATG	GAGAATTTAC	240
TGGCGAAGAC	GAAAGCAGTG	CACATGCACT	AGAACGGAAG	AGTGACAACC	CCCTAGATAT	300
AGCTGTAACC	AGGCTGGCTG	ATTTGGAGCG	GAACATTGAA	AGAAGGTATC	TGAAGAGCCC	360
CTTAAGTACC	ACCATTCAGA	TCAAACGGA	TAATGTGGGC	ACAGTTACTG	TCCCTGCTCC	420
TGCACCATCC	GTTAGTGGTG	ATGGTGACGG	AATTGAAGAG	GATATTGCTC	CAGGGCTCAG	480
GGTATGGAGA	AGGGCATTAT	CAGAAGCTCG	CAGTGCTGCA	CAGGTAGCTC	TGTGCATTCA	540
GCAATTACAG	AAATCAATAG	CATGGGAAAA	ATCAATTATG	AAAGTTTACT	GCCAAATCTG	600
TCGAAAGGGA	GATAATGAAG	AACTGCTTCT	TCTTTGTGAT	GGCTGTGACA	AAGGCTGTCA	660
TACCTACTGC	CATAGACCCA	AGATTACAAC	AATCCAGAT	GCTCTCGAG		709

(2) INFORMATION FOR SEQ ID NO:1485:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 272 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1485:

```

GAATTCGGCC TTCATGGCCT ACTGTTTCAG AACTTCGGTA CCTTTTCTT GTATGTAGCA      60
CGTATAAATG CAGCTGTCAT GCAGTTCCTT TCTTTTGCTA GAAAATTAGT CAGGAGGTAA      120
GATGAATCTT CCAAAGTTAT GTTAAATTTT GTTTAACTTG ACAAATTAAA CTTTGTCTCT      180
ATTAAACAAA TACGTAAACA AATACTGGAA AAGCAAAGCT TATATTGGG AGTAAATGT      240
ATCTTAAAT GCATGTTCAA CTTTGCTCG AG                                272

```

(2) INFORMATION FOR SEQ ID NO:1486:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 350 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1486:

```

GAATTCGGCC TTCATGGCCT ACCGAGGACG AGGGGAAGAT GTCACGCAAG ATAGAAGGCT      60
TTTGTATT ACTTCTCTT GGCTATGAAG CCACATTGGG ATTATCGTCT ACCGAGGATG      120
AAGGCGAGGA CCCCTGGTAC CAAAAAGCAT GCAAGTGCGA TTGCCAAGGA GGACCCAATG      180
CTCTGTGGTC TGCAGGTGCC ACCTCCTTGG ACTGTATACC AGAATGCCCA TATCACAAGC      240
CTCTGGGTTT CGAGTCAGGG GAGGTCACAC CGGACCAGAT CACCTGCTCT AACC CGGAGC      300
AGTATGTGGG CTGGTATTCT TCGTGGACTG CAAACAAGGC CCATCTCGAG      350

```

(2) INFORMATION FOR SEQ ID NO:1487:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 276 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1487:

```

GAATTCGGCC TTCATGGCCT AGTACCTGAA GGCCTTCAAG GTGGCCTACA GCCTTAATGG      60
ACACGAATTC GATTTTCATCC ATGATGTTAA TAAAAACAC AAGGAGTTTG TGGGTAAGT      120
GAACAAAAC GCGGTGCATG TCAACCTGTT TGAGACCCCT GTGGAGGCTC AGTACGTGAG      180
ATTGTACCCC ACGAGCTGCC ACACGGCCTG CACTCTGCGC TTTGAGCTAC TGGGCTGTGA      240
GCTGAACGGA TGCGCCAATC CCCTGGGCGT CTCGAG                                276

```

(2) INFORMATION FOR SEQ ID NO:1488:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 595 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1488:

GAATTCGGCC	TTCATGGCCT	AGTGGAGATT	ACTTGGCACC	ACTCTCCTTT	CACAGAGCAG	60
AGTCTGAATA	GTCTTCAGAG	ATAGGCCTGT	GGGCCAGATT	GCCATCCCCT	ATGGACCAGA	120
AGCCAAGGAT	CTCTCTAGTG	ATGGTCAGAG	GGCCCAAATG	GCAGGGATAC	CCAGTGATGT	180
CAGGAGGAAT	AGTACAGACA	GAAGGTGCTA	AGCAGACAAT	TCAACTGCCA	TGTTTGGCCA	240
CCCCCTGTGA	GCAGGGATTA	GGTGTTCAGG	CCAGTATCTT	GGGCATGGGG	GAGCCTTTGG	300
CCAGAAGAGG	TATAAAGCTC	AGAAGTTTTT	CAGTCTGATA	ACTATTGATA	TAATTTCCAT	360
AGTGTGAGGG	AGCGGTATGC	TCTACCCCTG	TGTATTTAAG	GCAGGACAGA	GAAATTGAGG	420
ATGCCCTGG	GGCTAGATCG	ATGATATGAC	CAGAAATCAA	AAAGGGAATG	CATTATTTAT	480
TGCTGTGTAA	CACTGTTAAG	AGAGGAGGTA	GTTAAGGGAT	GGATAGGCAC	ATAGAGAGGG	540
AAGGTCTCAG	GAGAAGGGAT	AGAAAGGAAC	TATGTTTACA	AGAACAACAC	TCGAG	595

(2) INFORMATION FOR SEQ ID NO:1489:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 297 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1489:

GAATTCGGCC	TTCATGGCCT	ACAATTTAAT	AGTATAACAA	ATCCCCTAGA	ATAGTAGAGG	60
AGAGAGGAAT	CTTCCCCTGA	TATGTTTTTG	TAATACTTCT	TCCTCCTCTT	CAGTCAATAG	120
GGAAATGTTT	GTTGAAAGAC	TACTTTGCAG	ACATTTAGAA	AGATACAGAG	TAAGTGTAAG	180
ATGTCCCTCC	TTGTCCTTGA	GGAGTCTCTA	GTCAGGCACA	GGTAGGACTA	AATGAAAAAC	240
AACTACAGAA	CTAAGTAGAA	GAGTGACAA	TAATATGGGG	AATGTGGAAC	ACTCGAG	297

(2) INFORMATION FOR SEQ ID NO:1490:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 273 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1490:

GAATTCGGCC	TTCATGGCCT	ACTTACTTTT	CCAAAGAATT	TTTTCCACCT	GGAATAAGAA	60
GAGAGGACTA	GTTGAAACAT	TTGAGCTGGA	GAGGCTTATG	GGCAATATGA	AGTGGGCCAA	120
ATTCTTGCAA	TACACCCTAT	TCAATTGAAA	GTACAGTGTC	TAAGGATAAG	AATACTTCTT	180
TAAAGACCAA	CAATGTGTTT	AATGCAATCT	TAATTAGTAA	ATGGTTTACA	TTTTTTCTAT	240
TGTTATTGGT	TTTAAAATT	GCTACCGCTC	GAG			273

(2) INFORMATION FOR SEQ ID NO:1491:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 660 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1491:

GAATTCGGCC	TTCATGGCCT	ATTGAATTCT	AGACCTGCCT	CAGGGTAAGG	GAGATTTAAT	60
CTTTTCTTT	ACTATTTTCT	AGTTTCTATG	AGCATGGATT	ACTTGTGCAA	ATCAAAACAA	120
AACAAACGGA	TGGCTCATCC	GGCAAACATC	CATGGGCAGG	GTTGGTGTCT	GGTGCTGGAC	180
GCAGAGATGA	ATGGAGGGCT	CTGGCCTCAG	CGGCTCACAG	TCTGGTGAGC	ATAGACAGTG	240
CTTTCGATGT	GAGAGCAGAC	CTGAGTGTCT	CCTGGGACTC	CAGGCACAGT	TCTCCCTGCA	300
GCTCACAGCA	CTTACCCTTA	CTGCACCATT	AACTTCTACT	CTAGCTCACT	GCCTCTTAAC	360
TCTGAGCGCC	TTGAAGGCAC	AAAATGAGTC	CCATCTGGGT	CTTAGCAGC	TGGCAGAAAA	420
CCTAGCTCAA	ACTCATGCTC	TAAAAACCCC	TGCTGAGGGA	GTGGGCGAAT	GCAGGCAGCC	480
CTGGCAGTGG	GATCAAGTTC	AGGGAGTGGC	ACTGGAGGCA	TCACCCCAAG	GCTGAGAAGA	540
CCTTGAAC TG	CTGTTCAGGG	TTTGCTGTCT	TCTCCCAAGG	CATGACTCGG	CCCAGGAGGA	600
GATGGGGCAG	ATGCTGCAGA	AGGAGGGTTC	ATGCCCTCC	ACTGCTGCCC	ATGACTCGAG	660

(2) INFORMATION FOR SEQ ID NO:1492:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 315 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1492:

GCTGTGCTAT	CTGTTGTCCA	GCATCTGACA	CAGTTGGTTT	TATATTTTGT	CTGGTTTCTA	60
GTTATTAAGC	AGGTTAAGTC	TGGTTCCTGC	TGTTCTATAT	AGCAGGAAGC	AAAGGTTCTC	120
TCATGAATTT	TTAGCATAAT	AACATAAGCG	TGGATTCCAA	AAATTCATTA	CACAGATCCT	180
GGAAATCTGT	TTACTATGTT	TTATACATTC	TGTGAAAGCT	GGAGAATATA	TATTTGTTTT	240
ACTATGTGTA	TCGCAAATAA	AATATCAATT	TCATGTGCCA	GAGAATTGAA	TACATTATCA	300
AAGGTCAAC	TCGAG					315

(2) INFORMATION FOR SEQ ID NO:1493:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 356 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1493:

GGGACAACAA	GCCCATCTGG	ATGCACGCAG	AGGAGCGGGA	GGAAAGCAAG	GATAAGCGCC	60
GGGACAGCGC	CCCCTATGGG	GAATACGGCA	GCTGGTACAA	GGCCTGTAAA	GTAGACAGCC	120
CCACAGTCAA	CACCACCCTG	CGCAGCTTGG	GGGCCCTATA	CCGCGGCCAG	GGCAAGCTGG	180
AAGCCGCGCA	CACACTAGAG	GACTGTGCCA	GCCGTAACCG	CAAGCAGGGT	TTGGACCCCG	240
CAAGCCAGAC	CAAGGTGGTA	GAACTGCTGA	AAGATGGCAG	TGGCAGGCGG	GGAGACCGCC	300
GCAGCAGCCG	AGACATGGCT	GGGGGTGCCG	GGCCTCGGTC	TGAGTCTGAC	CTCGAG	356

(2) INFORMATION FOR SEQ ID NO:1494:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 366 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1494:

GAATTCGGCC	TTCATGGCCT	AGTAAAGGGA	TTTATAATAA	CATTAAAAAT	TTCGTTAGAT	60
TCCAGCTGAG	CACGAGTATA	GCAGCATTAA	CTTTAATCTC	ATTGGCTACA	TTAATGAACT	120
TTCCTAATCC	TCTCAATGCC	ATGCAGATTT	TGTGGATCAA	TATTATTATG	GATGGACCCC	180
CAGCTCAGAG	CCTTGGAGTA	GAACCAAGTG	ATAAGATGT	CATTCGTAAA	CCTCCTCGCA	240
ACTGGAAAGA	CAGCATTTTG	ACTAAAAACT	TGATACTTAA	AATACTTGTT	TCATCAATAA	300
TCATTGTTTG	TGGGACTTTG	TTTGTCTTCT	GGCGTGAGCT	ACGAGACAAT	GTGATTACAC	360
CTCGAG						366

(2) INFORMATION FOR SEQ ID NO:1495:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 258 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1495:

GCTCGAGCGT	TGAGGTCAAC	ACTTCCTCCA	GGGAAAAGGA	TTCCATTAAT	AGATTGAAA	60
AGTATTTTCAT	AGTCTTTCTC	TGTAAGATCC	AGCCTTACTG	GTACAACTCT	CGCACCTGCA	120
GACTCCAAGT	ACTTTACATA	GGACGCAGCA	ATATAGTATC	TTCCATAGTT	TTTCATGACT	180
TTATTACGGC	ATTTTTCAT	TAATATTCCG	ATGATGGGCT	TCTTGGCGGT	GTGCGCCGTG	240
GCTCTAGACT	ATCTCGAG					258

(2) INFORMATION FOR SEQ ID NO:1496:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 437 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1496:

GAATTCGGCT	TCATGGCCTA	CTCTCTTTCT	CCATGTAAA	CCCCTTGCCA	TGAATGAAAG	60
GCTTTCCCCT	TTATCCTTGC	TGTGTTTATT	CATTGTGTCC	AATGAGCTTC	TGAAGGTAGG	120
AGTAACCTTG	CACATTTTGC	TGTGTGGGCT	GCTGCATCTC	TGCCAAAAGG	TTTATGGGAT	180
TTTTACTCAG	GAGATCCAGG	AAAAGGAGGA	GCCTGGAATC	TAAGCACTTA	TCTCCTGAAA	240
AGGTACAGAA	ACATGTTGGA	GATCTTGAGC	CTCAAGGTGC	TTGCTTCAGA	ATTTTCCTGA	300
TTCTCCCTCT	CCAGACCTAT	TCTGTTCTTG	GGACCCAAGC	TTCTTGGCTC	CAGCCCACTC	360
CCCCACTAGA	GGAGCTGGAA	AGTTTGGTGC	TGTGGTCATA	CCAAAGATGG	GCAACACCCA	420
GACTCCTCAC	CCTCGAG					437

(2) INFORMATION FOR SEQ ID NO:1497:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 516 base pairs
(B) TYPE: nucleic acid

(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1497:

```
GAATTCGGCC TTCATGGCCT AGTGCAGGTC CTGGTGCTTG ATGGTCGAGG CCATCTCCTG      60
GGCGCCTGG CGGCCATCGT GGCTAAACAG GTACTGCTGG GCCGGAAGGT GGTGGTGTGA      120
CGCTGTGAAG GCATCAACAT TTCTGGCAAT TTCTACAGAA ACAAGTTGAA GTACCTGGCT      180
TTCCTCCGCA AGCGGATGAA CACCAACCCT TCCGAGGCC CCTACCACTT CCGGGCCCCC      240
AGCCGCATCT TCTGGCGGAC CGTGCAGGAT ATGCTGCCCC ACAAAACCAA GCGAGGCCAG      300
GCCGCTCTGG ACCGTCTCAA GGTGTTTGAC GGCATCCAC CGCCCTACGA CAAGAAAAAG      360
CGGATGGTGG TTCTGTGCTC CCTCAAGGTC GTGCTCTGA AGCCTACAAG AAAGTTTGCC      420
TATCTGGGGC GCCTGGCTCA CGAGGTTGGC TGGAAGTACC AGGCAGTGAC AGCCACCCTG      480
GAGGAGAAGA GGAAAGAGAA AGCCAAGAAC CTCGAG                               516
```

(2) INFORMATION FOR SEQ ID NO:1498:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 329 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1498:

```
GCGAGCTCCT GACCTCAGGT GATCTACCCG CCTCAGCCTC CCAAAGTGTT AGGATTACAG      60
GCGTGAGCCA CGCACCTGG CACCCCCCCC CTTTTTTTTT AATATAAATG ATCAGTCTTA      120
ACTCCCTAGG TTATCAGGTT GAGGGGGTGG GGATGAGGCT GGGGGACAGA TTGTTTTCTT      180
GGCTTCTAGC TCGGTGTTCT TTCTGCCTCT GTGCACAACA AGGTATGCGT GTATTGTGGT      240
TGTGGACTGT GGTGTGTGAC TGCTATTCA CAAGTGGCTA TGAGGCCCAT CTGCTGATGC      300
TTTTGGATGC ACTTGGCGAT GAACTCGAG                               329
```

(2) INFORMATION FOR SEQ ID NO:1499:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 430 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1499:

```
GAATTCGGCC TTCATGGCCT AGGAGCGCGG TGGCCACGGA ACGCTGCCCG GAGCCGCGCG      60
AGGGAGGACC CGACGCGCGG CGTTTACCCA GCGCAGCGTT CCACGCTCG GGTTTGGCTG      120
GATAAAATAA AAAATGGGGA TATTGACCTC CTGTCACTAC TGCATGGACT TTGATGGTTT      180
CCAATCATTA CTTTCTCCTC TGTGTCAATC TGCTCTTCG AGAAATTCAT ACTCCTGAAT      240
AGCTCTCCAG ACCCCAGCT GGCCATGTGG TGAGTTCAGG GCCCAAATCA AGTAGTACCA      300
GCAATCAGGG AACTCCTATC TGTTTTGAAT GGATTACAC CAGCCACAAG CCTGGAAGA      360
TGGTGTCA CA ATCTACAGTC AGGCAGGATT CTCTGTGGA GCCCTGGGAA GGGATCAGCG      420
ATCACTCGAG                               430
```

(2) INFORMATION FOR SEQ ID NO:1500:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 375 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1500:

GAATTCGGCC	TTCATGGCCT	AGCCAAGTCT	GGGAAGCCTT	AAGGAAAGGA	GTGCCCCTCG	60
GCGTCTTGGT	CCTCCTGTCC	CTGCTGCAGG	GGCTGGGGCC	TCCGGAGCTG	CTGCGGGCTC	120
CCCTCAGGCT	CTGCTTCGTG	ACCCGTGACC	CATGACCCAC	AGTGCTGGCC	TCCTGTGGGG	180
CCACTATAGC	AGCCACCAGA	AGCCGCGAGG	CCCTCAGGGA	AGCCCAAGGC	CTGCAGAAGC	240
CTCCTGGCCT	GGCTGTGTCT	TCCCCACCCA	GCTCTCCCCT	GCGCCCCTGT	CTTTGTAAAT	300
TGACCCTTCT	GGAGTGGGGG	GCGGCGGGCA	GGGCTGCTTT	TCTTAGTCTG	ATACCAAGCA	360
AGGCCTTTTC	TCGAG					375

What is claimed is:

1. An isolated polynucleotide comprising a nucleotide sequence selected from the group consisting of:

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NO:1193, SEQ ID NO:1194, SEQ ID NO:1195, SEQ ID NO:1196, SEQ ID NO:1197, SEQ ID NO:1198, SEQ ID NO:1199, SEQ ID NO:1200, SEQ ID NO:1201, SEQ ID NO:1202, SEQ ID NO:1203, SEQ ID NO:1204, SEQ ID NO:1205, SEQ ID NO:1206, SEQ ID NO:1207, SEQ ID NO:1208, SEQ ID NO:1209, SEQ ID NO:1210, SEQ ID NO:1211, SEQ ID NO:1212, SEQ ID NO:1213, SEQ ID NO:1214, SEQ ID NO:1215, SEQ ID NO:1216, SEQ ID NO:1217, SEQ ID NO:1218, SEQ ID NO:1219, SEQ ID NO:1220, SEQ ID NO:1221, SEQ ID NO:1222, SEQ ID NO:1223, SEQ ID NO:1224, SEQ ID NO:1225, SEQ ID NO:1226, SEQ ID NO:1227, SEQ ID NO:1228, SEQ ID NO:1229, SEQ ID NO:1230, SEQ ID NO:1231, SEQ ID NO:1232, SEQ ID NO:1233, SEQ ID NO:1234, SEQ ID NO:1235, SEQ ID NO:1236, SEQ ID NO:1237, SEQ ID NO:1238, SEQ ID NO:1239, SEQ ID NO:1240, SEQ ID NO:1241, SEQ ID NO:1242, SEQ ID NO:1243, SEQ ID NO:1244, SEQ ID NO:1245, SEQ ID NO:1246, SEQ ID NO:1247, SEQ ID NO:1248, SEQ ID NO:1249, SEQ ID NO:1250, SEQ ID NO:1251, SEQ ID NO:1252, SEQ ID NO:1253, SEQ ID NO:1254, SEQ ID NO:1255, SEQ ID NO:1256, SEQ ID NO:1257, SEQ ID NO:1258, SEQ ID NO:1259, SEQ ID NO:1260, SEQ ID NO:1261, SEQ ID NO:1262, SEQ ID NO:1263, SEQ ID NO:1264, SEQ ID NO:1265, SEQ ID NO:1266, SEQ ID NO:1267, SEQ ID NO:1268, SEQ ID NO:1269, SEQ ID NO:1270, SEQ ID NO:1271, SEQ ID NO:1272, SEQ ID NO:1273, SEQ ID NO:1274, SEQ ID NO:1275, SEQ ID NO:1276, SEQ ID NO:1277, SEQ ID NO:1278, SEQ ID NO:1279, SEQ ID NO:1280, SEQ ID NO:1281, SEQ ID NO:1282, SEQ ID NO:1283, SEQ ID NO:1284, SEQ ID NO:1285, SEQ ID NO:1286, SEQ ID NO:1287, SEQ ID NO:1288, SEQ ID NO:1289, SEQ ID NO:1290, SEQ ID NO:1291, SEQ ID NO:1292, SEQ ID NO:1293, SEQ ID NO:1294, SEQ ID NO:1295, SEQ ID NO:1296, SEQ ID NO:1297, SEQ ID NO:1298, SEQ ID NO:1299, SEQ ID NO:1300, SEQ ID NO:1301, SEQ ID NO:1302, SEQ ID NO:1303, SEQ ID NO:1304, SEQ ID NO:1305, SEQ ID NO:1306, SEQ ID NO:1307, SEQ ID NO:1308, SEQ ID NO:1309, SEQ ID NO:1310, SEQ ID NO:1311, SEQ ID NO:1312, SEQ ID NO:1313, SEQ ID NO:1314, SEQ ID NO:1315, SEQ ID NO:1316, SEQ ID NO:1317, SEQ ID NO:1318, SEQ ID NO:1319, SEQ ID NO:1320, SEQ ID NO:1321, SEQ ID NO:1322, SEQ ID NO:1323, SEQ ID NO:1324, SEQ ID NO:1325, SEQ ID NO:1326, SEQ ID NO:1327, SEQ ID NO:1328, SEQ ID

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NO:1465, SEQ ID NO:1466, SEQ ID NO:1467, SEQ ID NO:1468, SEQ ID NO:1469, SEQ ID NO:1470, SEQ ID NO:1471, SEQ ID NO:1472, SEQ ID NO:1473, SEQ ID NO:1474, SEQ ID NO:1475, SEQ ID NO:1476, SEQ ID NO:1477, SEQ ID NO:1478, SEQ ID NO:1479, SEQ ID NO:1480, SEQ ID NO:1481, SEQ ID NO:1482, SEQ ID NO:1483, SEQ ID NO:1484, SEQ ID NO:1485, SEQ ID NO:1486, SEQ ID NO:1487, SEQ ID NO:1488, SEQ ID NO:1489, SEQ ID NO:1490, SEQ ID NO:1491, SEQ ID NO:1492, SEQ ID NO:1493, SEQ ID NO:1494, SEQ ID NO:1495, SEQ ID NO:1496, SEQ ID NO:1497, SEQ ID NO:1498, SEQ ID NO:1499, and SEQ ID NO:1500;

or a complement of said sequence.

2. An isolated polynucleotide consisting of a nucleotide sequence selected from the group consisting of:

SEQ ID NO:1, SEQ ID NO:2, SEQ ID NO:3, SEQ ID NO:4, SEQ ID NO:5, SEQ ID NO:6, SEQ ID NO:7, SEQ ID NO:8, SEQ ID NO:9, SEQ ID NO:10, SEQ ID NO:11, SEQ ID NO:12, SEQ ID NO:13, SEQ ID NO:14, SEQ ID NO:15, SEQ ID NO:16, SEQ ID NO:17, SEQ ID NO:18, SEQ ID NO:19, SEQ ID NO:20, SEQ ID NO:21, SEQ ID NO:22, SEQ ID NO:23, SEQ ID NO:24, SEQ ID NO:25, SEQ ID NO:26, SEQ ID NO:27, SEQ ID NO:28, SEQ ID NO:29, SEQ ID NO:30, SEQ ID NO:31, SEQ ID NO:32, SEQ ID NO:33, SEQ ID NO:34, SEQ ID NO:35, SEQ ID NO:36, SEQ ID NO:37, SEQ ID NO:38, SEQ ID NO:39, SEQ ID NO:40, SEQ ID NO:41, SEQ ID NO:42, SEQ ID NO:43, SEQ ID NO:44, SEQ ID NO:45, SEQ ID NO:46, SEQ ID NO:47, SEQ ID NO:48, SEQ ID NO:49, SEQ ID NO:50, SEQ ID NO:51, SEQ ID NO:52, SEQ ID NO:53, SEQ ID NO:54, SEQ ID NO:55, SEQ ID NO:56, SEQ ID NO:57, SEQ ID NO:58, SEQ ID NO:59, SEQ ID NO:60, SEQ ID NO:61, SEQ ID NO:62, SEQ ID NO:63, SEQ ID NO:64, SEQ ID NO:65, SEQ ID NO:66, SEQ ID NO:67, SEQ ID NO:68, SEQ ID NO:69, SEQ ID NO:70, SEQ ID NO:71, SEQ ID NO:72, SEQ ID NO:73, SEQ ID NO:74, SEQ ID NO:75, SEQ ID NO:76, SEQ ID NO:77, SEQ ID NO:78, SEQ ID NO:79, SEQ ID NO:80, SEQ ID NO:81, SEQ ID NO:82, SEQ ID NO:83, SEQ ID NO:84, SEQ ID NO:85, SEQ ID NO:86, SEQ ID NO:87, SEQ ID NO:88, SEQ ID NO:89, SEQ ID NO:90, SEQ ID NO:91, SEQ ID NO:92, SEQ ID NO:93, SEQ ID NO:94, SEQ ID NO:95, SEQ ID NO:96, SEQ ID NO:97, SEQ ID NO:98, SEQ ID NO:99, SEQ ID NO:100, SEQ ID NO:101, SEQ ID NO:102, SEQ ID NO:103, SEQ ID NO:104, SEQ ID

NO:105, SEQ ID NO:106, SEQ ID NO:107, SEQ ID NO:108, SEQ ID NO:109, SEQ ID NO:110, SEQ ID NO:111, SEQ ID NO:112, SEQ ID NO:113, SEQ ID NO:114, SEQ ID NO:115, SEQ ID NO:116, SEQ ID NO:117, SEQ ID NO:118, SEQ ID NO:119, SEQ ID NO:120, SEQ ID NO:121, SEQ ID NO:122, SEQ ID NO:123, SEQ ID NO:124, SEQ ID NO:125, SEQ ID NO:126, SEQ ID NO:127, SEQ ID NO:128, SEQ ID NO:129, SEQ ID NO:130, SEQ ID NO:131, SEQ ID NO:132, SEQ ID NO:133, SEQ ID NO:134, SEQ ID NO:135, SEQ ID NO:136, SEQ ID NO:137, SEQ ID NO:138, SEQ ID NO:139, SEQ ID NO:140, SEQ ID NO:141, SEQ ID NO:142, SEQ ID NO:143, SEQ ID NO:144, SEQ ID NO:145, SEQ ID NO:146, SEQ ID NO:147, SEQ ID NO:148, SEQ ID NO:149, SEQ ID NO:150, SEQ ID NO:151, SEQ ID NO:152, SEQ ID NO:153, SEQ ID NO:154, SEQ ID NO:155, SEQ ID NO:156, SEQ ID NO:157, SEQ ID NO:158, SEQ ID NO:159, SEQ ID NO:160, SEQ ID NO:161, SEQ ID NO:162, SEQ ID NO:163, SEQ ID NO:164, SEQ ID NO:165, SEQ ID NO:166, SEQ ID NO:167, SEQ ID NO:168, SEQ ID NO:169, SEQ ID NO:170, SEQ ID NO:171, SEQ ID NO:172, SEQ ID NO:173, SEQ ID NO:174, SEQ ID NO:175, SEQ ID NO:176, SEQ ID NO:177, SEQ ID NO:178, SEQ ID NO:179, SEQ ID NO:180, SEQ ID NO:181, SEQ ID NO:182, SEQ ID NO:183, SEQ ID NO:184, SEQ ID NO:185, SEQ ID NO:186, SEQ ID NO:187, SEQ ID NO:188, SEQ ID NO:189, SEQ ID NO:190, SEQ ID NO:191, SEQ ID NO:192, SEQ ID NO:193, SEQ ID NO:194, SEQ ID NO:195, SEQ ID NO:196, SEQ ID NO:197, SEQ ID NO:198, SEQ ID NO:199, SEQ ID NO:200, SEQ ID NO:201, SEQ ID NO:202, SEQ ID NO:203, SEQ ID NO:204, SEQ ID NO:205, SEQ ID NO:206, SEQ ID NO:207, SEQ ID NO:208, SEQ ID NO:209, SEQ ID NO:210, SEQ ID NO:211, SEQ ID NO:212, SEQ ID NO:213, SEQ ID NO:214, SEQ ID NO:215, SEQ ID NO:216, SEQ ID NO:217, SEQ ID NO:218, SEQ ID NO:219, SEQ ID NO:220, SEQ ID NO:221, SEQ ID NO:222, SEQ ID NO:223, SEQ ID NO:224, SEQ ID NO:225, SEQ ID NO:226, SEQ ID NO:227, SEQ ID NO:228, SEQ ID NO:229, SEQ ID NO:230, SEQ ID NO:231, SEQ ID NO:232, SEQ ID NO:233, SEQ ID NO:234, SEQ ID NO:235, SEQ ID NO:236, SEQ ID NO:237, SEQ ID NO:238, SEQ ID NO:239, SEQ ID NO:240, SEQ ID NO:241, SEQ ID NO:242, SEQ ID NO:243, SEQ ID NO:244, SEQ ID NO:245, SEQ ID NO:246, SEQ ID NO:247, SEQ ID NO:248, SEQ ID NO:249, SEQ ID NO:250, SEQ ID NO:251, SEQ ID NO:252, SEQ ID NO:253, SEQ ID NO:254, SEQ ID NO:255, SEQ ID NO:256, SEQ ID NO:257, SEQ ID

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or a complement of said sequence.

3. An isolated polynucleotide consisting essentially of a nucleotide sequence selected from the group consisting of:

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or a complement of said sequence.

4. An isolated polynucleotide comprising a nucleotide sequence which hybridizes to a sequence selected from the group consisting of:

SEQ ID NO:1, SEQ ID NO:2, SEQ ID NO:3, SEQ ID NO:4, SEQ ID NO:5, SEQ ID NO:6, SEQ ID NO:7, SEQ ID NO:8, SEQ ID NO:9, SEQ ID NO:10, SEQ ID NO:11, SEQ ID NO:12, SEQ ID NO:13, SEQ ID NO:14, SEQ ID NO:15, SEQ

ID NO:16, SEQ ID NO:17, SEQ ID NO:18, SEQ ID NO:19, SEQ ID NO:20, SEQ ID NO:21, SEQ ID NO:22, SEQ ID NO:23, SEQ ID NO:24, SEQ ID NO:25, SEQ ID NO:26, SEQ ID NO:27, SEQ ID NO:28, SEQ ID NO:29, SEQ ID NO:30, SEQ ID NO:31, SEQ ID NO:32, SEQ ID NO:33, SEQ ID NO:34, SEQ ID NO:35, SEQ ID NO:36, SEQ ID NO:37, SEQ ID NO:38, SEQ ID NO:39, SEQ ID NO:40, SEQ ID NO:41, SEQ ID NO:42, SEQ ID NO:43, SEQ ID NO:44, SEQ ID NO:45, SEQ ID NO:46, SEQ ID NO:47, SEQ ID NO:48, SEQ ID NO:49, SEQ ID NO:50, SEQ ID NO:51, SEQ ID NO:52, SEQ ID NO:53, SEQ ID NO:54, SEQ ID NO:55, SEQ ID NO:56, SEQ ID NO:57, SEQ ID NO:58, SEQ ID NO:59, SEQ ID NO:60, SEQ ID NO:61, SEQ ID NO:62, SEQ ID NO:63, SEQ ID NO:64, SEQ ID NO:65, SEQ ID NO:66, SEQ ID NO:67, SEQ ID NO:68, SEQ ID NO:69, SEQ ID NO:70, SEQ ID NO:71, SEQ ID NO:72, SEQ ID NO:73, SEQ ID NO:74, SEQ ID NO:75, SEQ ID NO:76, SEQ ID NO:77, SEQ ID NO:78, SEQ ID NO:79, SEQ ID NO:80, SEQ ID NO:81, SEQ ID NO:82, SEQ ID NO:83, SEQ ID NO:84, SEQ ID NO:85, SEQ ID NO:86, SEQ ID NO:87, SEQ ID NO:88, SEQ ID NO:89, SEQ ID NO:90, SEQ ID NO:91, SEQ ID NO:92, SEQ ID NO:93, SEQ ID NO:94, SEQ ID NO:95, SEQ ID NO:96, SEQ ID NO:97, SEQ ID NO:98, SEQ ID NO:99, SEQ ID NO:100, SEQ ID NO:101, SEQ ID NO:102, SEQ ID NO:103, SEQ ID NO:104, SEQ ID NO:105, SEQ ID NO:106, SEQ ID NO:107, SEQ ID NO:108, SEQ ID NO:109, SEQ ID NO:110, SEQ ID NO:111, SEQ ID NO:112, SEQ ID NO:113, SEQ ID NO:114, SEQ ID NO:115, SEQ ID NO:116, SEQ ID NO:117, SEQ ID NO:118, SEQ ID NO:119, SEQ ID NO:120, SEQ ID NO:121, SEQ ID NO:122, SEQ ID NO:123, SEQ ID NO:124, SEQ ID NO:125, SEQ ID NO:126, SEQ ID NO:127, SEQ ID NO:128, SEQ ID NO:129, SEQ ID NO:130, SEQ ID NO:131, SEQ ID NO:132, SEQ ID NO:133, SEQ ID NO:134, SEQ ID NO:135, SEQ ID NO:136, SEQ ID NO:137, SEQ ID NO:138, SEQ ID NO:139, SEQ ID NO:140, SEQ ID NO:141, SEQ ID NO:142, SEQ ID NO:143, SEQ ID NO:144, SEQ ID NO:145, SEQ ID NO:146, SEQ ID NO:147, SEQ ID NO:148, SEQ ID NO:149, SEQ ID NO:150, SEQ ID NO:151, SEQ ID NO:152, SEQ ID NO:153, SEQ ID NO:154, SEQ ID NO:155, SEQ ID NO:156, SEQ ID NO:157, SEQ ID NO:158, SEQ ID NO:159, SEQ ID NO:160, SEQ ID NO:161, SEQ ID NO:162, SEQ ID NO:163, SEQ ID NO:164, SEQ ID NO:165, SEQ ID NO:166, SEQ ID NO:167, SEQ ID NO:168, SEQ ID NO:169, SEQ ID NO:170, SEQ ID NO:171, SEQ ID NO:172, SEQ ID NO:173, SEQ ID NO:174, SEQ ID NO:175, SEQ ID NO:176, SEQ ID

NO:177, SEQ ID NO:178, SEQ ID NO:179, SEQ ID NO:180, SEQ ID NO:181, SEQ ID NO:182, SEQ ID NO:183, SEQ ID NO:184, SEQ ID NO:185, SEQ ID NO:186, SEQ ID NO:187, SEQ ID NO:188, SEQ ID NO:189, SEQ ID NO:190, SEQ ID NO:191, SEQ ID NO:192, SEQ ID NO:193, SEQ ID NO:194, SEQ ID NO:195, SEQ ID NO:196, SEQ ID NO:197, SEQ ID NO:198, SEQ ID NO:199, SEQ ID NO:200, SEQ ID NO:201, SEQ ID NO:202, SEQ ID NO:203, SEQ ID NO:204, SEQ ID NO:205, SEQ ID NO:206, SEQ ID NO:207, SEQ ID NO:208, SEQ ID NO:209, SEQ ID NO:210, SEQ ID NO:211, SEQ ID NO:212, SEQ ID NO:213, SEQ ID NO:214, SEQ ID NO:215, SEQ ID NO:216, SEQ ID NO:217, SEQ ID NO:218, SEQ ID NO:219, SEQ ID NO:220, SEQ ID NO:221, SEQ ID NO:222, SEQ ID NO:223, SEQ ID NO:224, SEQ ID NO:225, SEQ ID NO:226, SEQ ID NO:227, SEQ ID NO:228, SEQ ID NO:229, SEQ ID NO:230, SEQ ID NO:231, SEQ ID NO:232, SEQ ID NO:233, SEQ ID NO:234, SEQ ID NO:235, SEQ ID NO:236, SEQ ID NO:237, SEQ ID NO:238, SEQ ID NO:239, SEQ ID NO:240, SEQ ID NO:241, SEQ ID NO:242, SEQ ID NO:243, SEQ ID NO:244, SEQ ID NO:245, SEQ ID NO:246, SEQ ID NO:247, SEQ ID NO:248, SEQ ID NO:249, SEQ ID NO:250, SEQ ID NO:251, SEQ ID NO:252, SEQ ID NO:253, SEQ ID NO:254, SEQ ID NO:255, SEQ ID NO:256, SEQ ID NO:257, SEQ ID NO:258, SEQ ID NO:259, SEQ ID NO:260, SEQ ID NO:261, SEQ ID NO:262, SEQ ID NO:263, SEQ ID NO:264, SEQ ID NO:265, SEQ ID NO:266, SEQ ID NO:267, SEQ ID NO:268, SEQ ID NO:269, SEQ ID NO:270, SEQ ID NO:271, SEQ ID NO:272, SEQ ID NO:273, SEQ ID NO:274, SEQ ID NO:275, SEQ ID NO:276, SEQ ID NO:277, SEQ ID NO:278, SEQ ID NO:279, SEQ ID NO:280, SEQ ID NO:281, SEQ ID NO:282, SEQ ID NO:283, SEQ ID NO:284, SEQ ID NO:285, SEQ ID NO:286, SEQ ID NO:287, SEQ ID NO:288, SEQ ID NO:289, SEQ ID NO:290, SEQ ID NO:291, SEQ ID NO:292, SEQ ID NO:293, SEQ ID NO:294, SEQ ID NO:295, SEQ ID NO:296, SEQ ID NO:297, SEQ ID NO:298, SEQ ID NO:299, SEQ ID NO:300, SEQ ID NO:301, SEQ ID NO:302, SEQ ID NO:303, SEQ ID NO:304, SEQ ID NO:305, SEQ ID NO:306, SEQ ID NO:307, SEQ ID NO:308, SEQ ID NO:309, SEQ ID NO:310, SEQ ID NO:311, SEQ ID NO:312, SEQ ID NO:313, SEQ ID NO:314, SEQ ID NO:315, SEQ ID NO:316, SEQ ID NO:317, SEQ ID NO:318, SEQ ID NO:319, SEQ ID NO:320, SEQ ID NO:321, SEQ ID NO:322, SEQ ID NO:323, SEQ ID NO:324, SEQ ID NO:325, SEQ ID NO:326, SEQ ID NO:327, SEQ ID NO:328, SEQ ID NO:329, SEQ ID

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or to a complement of said sequence.

5. An isolated protein encoded by an isolated polynucleotide of claim 1.
6. An isolated protein encoded by an isolated polynucleotide of claim 2.
7. An isolated protein encoded by an isolated polynucleotide of claim 3.
8. An isolated protein encoded by an isolated polynucleotide of claim 4.